RM-E1000T

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model

For MICRO FLOPPYDISK DRIVE, refer to the "MPF420-1/11C of SERVICE MANUAL MPF420" (9-976-305-10).

SPECIFICATIONS

Input jacks

Video — 5 lines (PLAYER INPUT 1/2/3/RECORDER IN/PROCESSOR IN)
S-VIDEO IN: 4-pin mini DIN (5)
Luminance 1 Vp-p, 75 ohms, unbalanced, sync negative
Chrominance 286 mVp-p, 75 ohms, unbalanced
VIDEO IN: Phono jack (5)
1 Vp-p, 75 ohms, unbalanced, sync negative

Audio — 6 lines (PLAYER INPUT 1/2/3/AUX AUDIO INPUT/RECORDER IN/PROCESSOR IN)
Phono jack
−7.5 dBs, impedance 47 kohms or more

Microphone — Minijack (front 1)
–60 dBs, 3 kohms or more

Output jacks

Video — 4 lines (RECORDER OUT/MONITOR OUT/PROCESSOR OUT 1/2)
S-VIDEO OUT: 4-pin mini DIN (4)
Luminance 1 Vp-p, 75 ohms, unbalanced, sync negative
VIDEO OUT: Phono jack (4)
1 Vp-p, 75 ohms, unbalanced, sync negative

Audio — 4 lines (RECORDER OUT/MONITOR OUT/PROCESSOR OUT 1/2)
Phono jack, −7.5 dBs, impedance 470 ohms or less

LANC — Stereo mini-minijack (rear 3, front 1)
CTRL S — Minijack (1)
GPI — Minijack (1)
EDIT I/F — 8-pin mini DIN (1)
IR REPEATER
Stereo mini-minijack (1)
Headphones
Stereo mini-minijack (1)
12 mW (47 ohms), appropriate impedance 8 ohms or more

General

Power requirements
European models except the United Kingdom: 220 - 230 V AC, 50/60 Hz
The United Kingdom models: 230 - 240 V AC, 50 Hz
USA/Canadian models: 120 V AC, 60 Hz

Power consumption
18 W

Operating temperature
5°C to 35°C (41°F to 95°F)

Storage temperature
–20°C to +60 °C (–4°F to +140°F)

—continued on next page—

VIDEO EDITING CONTROLLER/TITLER

MICROFILM

SONY®

Dimensions Main unit: Approx. 430 × 71 × 360 mm (w/h/d) (17 × 2 7/8 × 14 1/4 inches)
Control unit: Approx. 340 × 55 × 228 mm (w/h/d) (13 1/2 × 2 1/4 × 9 inches)
Keyboard: Approx. 340 × 50 × 180 mm (w/h/d) (13 1/2 × 2 × 7 1/8 inches)

Mass Main unit: Approx. 4 kg (8 lb. 13 oz.)
Control unit: Approx. 1 kg (2 lb. 3 oz.)
Keyboard: Approx. 0.7 kg (1 lb. 9 oz.)

Supplied accessories
See page 1-5.

Design and specifications are subject to change without notice.

Note (AEP, UK models: PAL)
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

US, Canadian models : NTSC

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

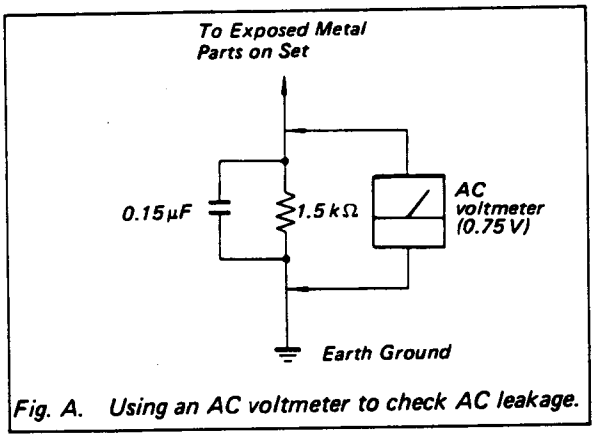


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

TABLE OF CONTENTS

SERVICE NOTE

SERVICE MODE

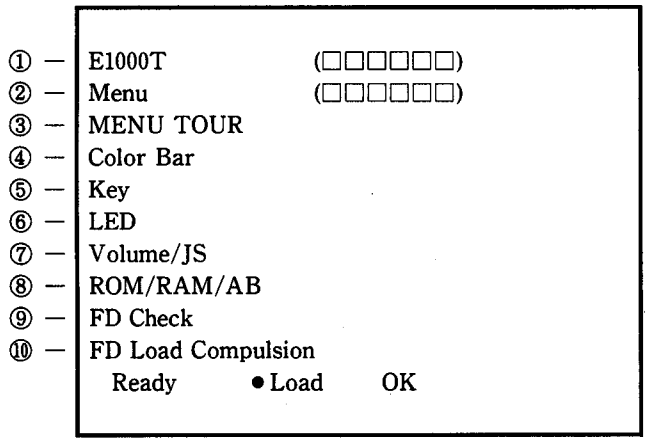
- As well as normal operations, RM-E1000T offers Service Mode. Various functions to help you service and check the set are incorporated in the system and available in this mode.
  The function to read the contents of a destroyed floppy disk is available.
  This is helpful for responding to a recovery request from a customer who destroyed its important data by any accidental trouble such as disk failure.

  CAUTION : The contents of memory storing edit data may be destroyed. The data should be stored in a floppy disk in normal mode before entering Service Mode.

1. ENTRY IN SERVICE MODE

- To put RM-E1000T in Service Mode, proceed as follows :
  1) Connect a monitor to MONITOR OUT terminal.
  2) Connect Control Unit and Keyboard to Main Unit.
  3) Put the system in STAND-BY mode.
  4) Move all of four slide VR's (MIC LEVEL/AUDIO MIX/AUDIO FADER/VIDEO FADER) on Control Unit to the top position.
  5) Push POWER button and hold down it and perform the following operations :
  5-1) Wait the Demo screen to appear.
  5-2) Lower AUDIO FADER slowly (to bottom).
  5-3) Lower VIDEO FADER slowly (to bottom).
  5-4) Raise AUDIO FADER slowly (to top).

- When Steps 1) to 5) are normally performed, the Service Menu will be displayed with a beep.



Service Menu

2. USE OF SERVICE MODE

(Refer to Service Mene)

① — This indicates the version of Front micom.

② — This indicates the version of Menu ROM.

③ — Select this with the cursor and press YES to display all Menu and Dialogue information. (Select the desired menu and language with the cursor.)

④ — Select this with the cursor and press YES to display color bar. (Press NO to return to Service Menu.)

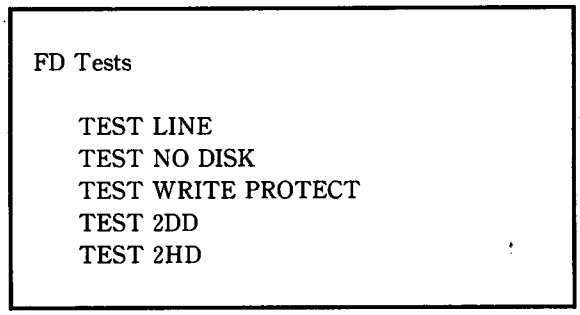
⑤ — Select this with the cursor and press YES to display the name of a specific button key on control unit. Push that button. When all the buttons have been pushed, you will return to Service Menu. (The buttons on control unit can be checked.)

⑥ — Select this with the cursor and press YES to allow the LED indicator on control unit specified on the screen to be lit. Go to the next LED with the down cursor key. When all the LED indicators have been lit, you will return to Service Menu. (The LED's on control unit can be checked.)

⑦ — Select this with the cursor and press YES to display the current set values of slide VR's and Jog/Shuttle on control unit. Move these controls. The values of slide VR's will change from 0 to 255.
Depending on the number of rotations, the value of Jog Pulse will change from 0 to 1 to 2... When Jog-dial control is rotated clockwise and it will change from 0 to 255 to 254... When rotated counter clockwise. Depending on the angle of turn, the value of Shuttle position will increase when Shuttle control is turned clockwise and it will decrease when turned clockwise.
Press NO to return to Service Menu.

⑧ — Select this with the cursor and press YES to open the Menu ROM and RAM Check Menu. Select each memory and press YES to check it. (This function is used for software debugging as well as Menu ROM and RAM check.)
Press NO to return to Service Menu.
CAUTION : Other than check, the contents of memory storing edit data will be destroyed. The data be stored in a floppy disk in normal mode.

⑨ — This is used for floppy disk drive check. Select this with the cursor and press YES to open the FD Tests Menu.

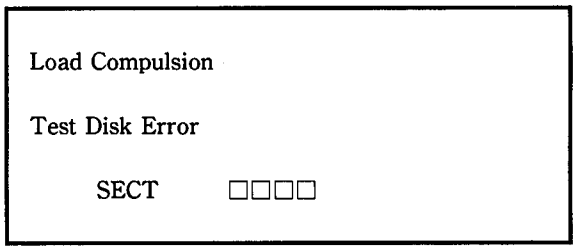


FD Tests Menu

1) TEST LINE: Press YES to check communication between Front micom and FD micom. This should be checked first of all. (After this check, move to the next item.)
2) TEST NO DISK: Press YES without inserting floppy disk. This checks the disk-remove detect function.
3) TEST WRITE PROTECT: Insert a write-protected floppy disk into drive and press YES. This checks the write-protect detect function.
4) TEST 2DD: Insert a 2DD floppy disk whose data may be cleared and press YES. This performs the formet-save-verify operation.
5) TEST 2HD: Insert a 2HD floppy disk whose data may be cleared and press YES. This performs the format-save-verify operation.

● Select NO from FD Tests Menu to return to Service Menu.

⑩ — This mode reads by compulsion a floppy disk that cannot be read in normal mode. In normal mode, the system check the format of all data and will load data on memory only when there is no fault. This function is used if you want to read the data on a partially destroyed disk anyhow.
Insert destroyed floppy disk into drive and press YES. If destroyed data is found, the Test Disk Error dialogue will be displayed. Take a note of the sector number. Press YES to return to Service Menu.
If only that sector is destroyed, OK will be marked "●".
If any other sectors are destroyed, Load will be marked "●". If so, press YES. The system continues this operation and find another destroyed data.
When OK is marked "●", press MENU button and return to normal mode. Save the data to a new floppy disk.
For how the destroyed sector numbers are associated with the data, see the following teble.



(□□□□: Sector No.)

Test Disk Error Dialogue

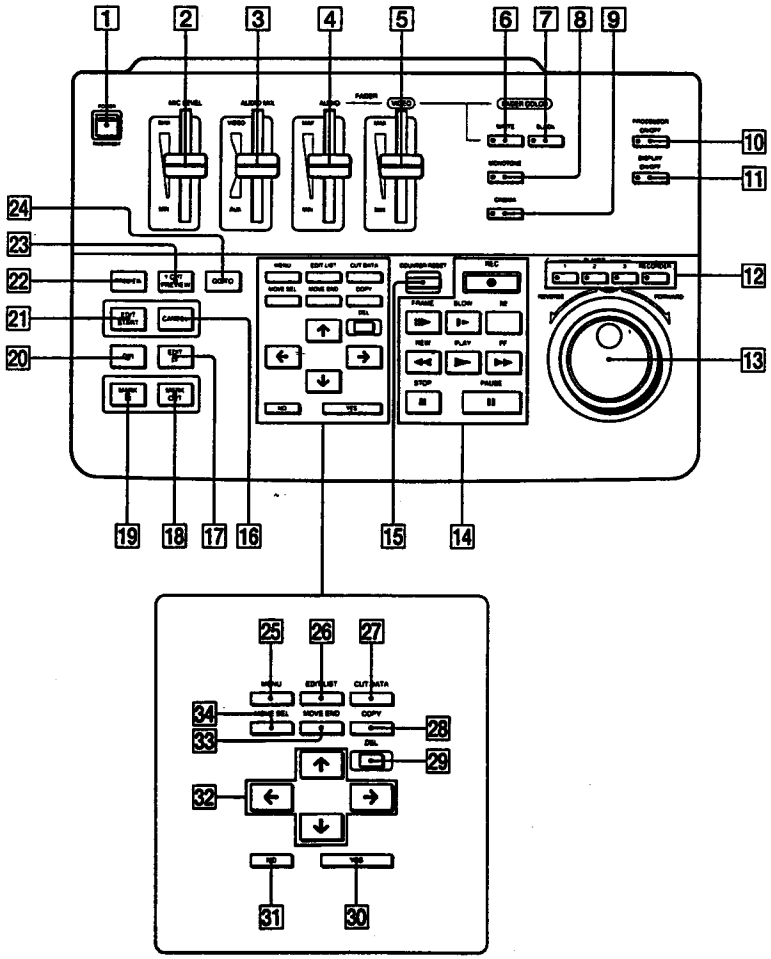
● SECTOR DATA TABLE

SECTOR	DATA
000	SYSTEM DATA, CUT DATA 1
001	CUT DATA 2, 3
002	CUT DATA 4, 5
003	CUT DATA 6, 7
004	CUT DATA 8, 9
005	CUT DATA 10, 11
⋮	⋮ SECT No. ×2+1 / SECT No. ×2
044	CUT DATA 88, 89
045	CUT DATA 90, 91
046	CUT DATA 92, 93
047	CUT DATA 94, 95
048	CUT DATA 96, 97
049	CUT DATA 98, 99
050-051	TIMING ADJUST DATA
052-067	REMOTE COM LEARNNING DATA
068-071	TITLE DATA 1
072-075	TITLE DATA 2
076-079	TITLE DATA 3
080-083	TITLE DATA 4
084-087	TITLE DATA 5
088-091	TITLE DATA 6
092-095	TITLE DATA 7
096-099	TITLE DATA 8
100-103	TITLE DATA 9
104-107	TITLE DATA 10
108-111	TITLE DATA 11
112-115	TITLE DATA 12
116-119	TITLE DATA 13
120-123	TITLE DATA 14
124-127	TITLE DATA 15

Parts Identification

For the use of each control, see the pages indicated in the parentheses.

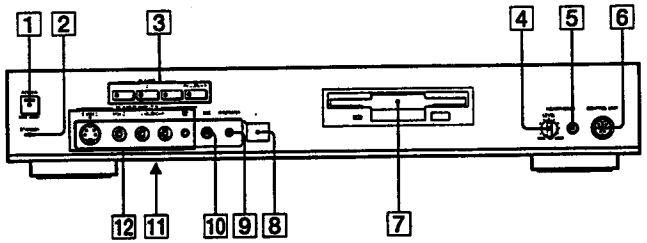
Control Unit



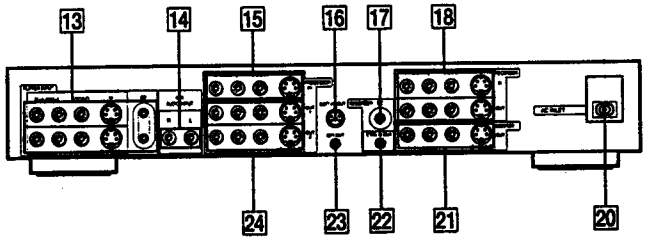
1 POWER ON/STANDBY switch (p. 17, 27)
2 MIC (microphone) LEVEL lever (p. 44)
3 AUDIO MIX lever (p. 44)
4 AUDIO FADER lever (p. 43)
5 VIDEO FADER lever (p. 43)
6 WHITE button (p. 43)
7 BLACK button (p. 43)
8 MONOTONE button (p. 41)
9 CINEMA button (p. 41)
10 PROCESSOR ON/OFF button (p. 59)
11 DISPLAY ON/OFF button (p. 27)
12 PLAYER 1/2/3/RECORDER select buttons (p. 28, 32)
13 Jog/shuttle dial (p. 30)
14 Tape transport buttons (p. 30)
REC ●: Recording
FRAME ⏭: Frame-by-frame playback
SLOW ⏯: Slow (1/5 speed) playback
×2: Double-speed playback
REW ◀◀: Rewind
PLAY ▶: Playback
FF ▶▶: Fast-forward
STOP ■: Stop
PAUSE ❚❚: Pause
15 COUNTER RESET button (p. 29)
16 CANCEL button (p. 31, 32)
17 EDIT 1/F button (p. 60)
18 MARK OUT button (p. 29)
19 MARK IN button (p. 28)
20 GPI button (p. 61)
21 EDIT START button (p. 32)
22 PREVIEW button (p. 31)
23 1 CUT PREVIEW button (p. 31)
24 GO TO button (p. 37, 41)
25 MENU button (P. 17, 46, 51, 57)
26 EDIT LIST button (p. 37)
27 CUT DATA button (p. 35, 36, 42)
28 COPY button (p. 38)
29 DEL (delete) button (p. 39)
30 YES button (p. 17, 37, 46, 51, 57)
31 NO button (p. 37)
32 Arrow buttons
33 MOVE END button (p. 38)
34 MOVE SEL (select) button (p. 38)

Main Unit

Front panel

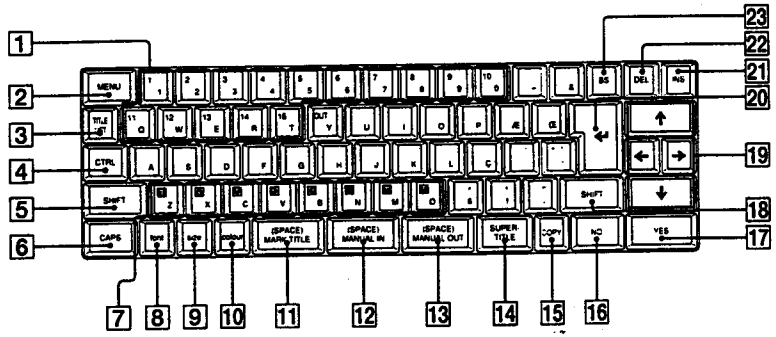


Rear panel



1 POWER ON/STANDBY switch (p.33)
2 Standby lamp
3 PLAYER/RECORDER select buttons (p.33)
4 HEADPHONES LEVEL control
5 HEADPHONES jack
Connect the headphones (not supplied).
6 CONTROL UNIT connector (p.11)
7 Floppy disk drive (p. 56)
8 Remote sensor (p.20)
9 IR REPEATER connector (p.15)
10 MIC (microphone) jack (p. 24)
11 Lithium battery compartment (bottom) (p. 6)
12 PLAYER INPUT 3 jacks (p. 10)
13 INPUT 1/2 jacks (p. 9)
14 AUX (auxiliary) AUDIO INPUT jack (p. 24)
15 PROCESSOR IN (input) jacks (p. 23)
16 EDIT I/F OUTPUT jack (p. 23)
17 RECORDER LANC connector (p. 13, 14, 15)
18 RECORDER IN/OUT (input/output) connectors (p. 13, 14, 15)
20 AC INLET connector (p. 10)
21 MONITOR OUT (output) jacks (p. 10)
22 CTRL (control) S OUT (output) jack (p. 14)
23 GPI OUT (output) jack (p. 23)
24 PROCESSOR OUT (output) 1, 2 jacks (p. 23)

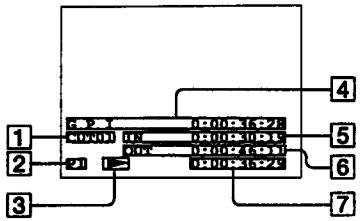
Keyboard



1 Title number buttons (1 to 15, OUT) (p. 55)
2 MENU button (p. 17, 46, 51, 57)
3 TITLE LIST button (p. 54)
4 CTRL (control) button (p. 54)
5 SHIFT button (p. 54)
6 CAPS button (p. 54)
7 Wipe effect buttons (p. 55)
8 "font" button (p. 54)
9 "size" button (p. 54)
10 "colour" button (p. 54)
11 MARK TITLE (SPACE) button (p. 54)
12 MANUAL IN (SPACE) button (p. 54, 55)
13 MANUAL OUT (SPACE) button (p. 54, 55)
14 SUPER-TITLE button (p. 54)
15 COPY button (p. 54)
16 NO button (p. 55)
17 YES button (p. 55)
18 SHIFT button (p. 54)
19 Arrow buttons (p. 54)
20 Return button (p. 54)
21 INS (insert) button (p. 54)
22 DEL (delete) button (p. 54)
23 BS (back space) button (p. 54)

Entry Mode Display

Turn on the power and press YES to display this.



1 Cut number

2 Player number (The number indicates the 1, 2 or 3 of PLAYER INPUT jacks.)

3 Tape transport mode of the player

4 TITLE, EDIT I/F or GPI counter (Appears when you press TITLE, EDIT I/F or GPI, see p. 55, 60, 61).

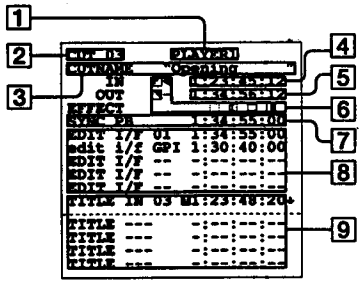
5 IN point counter (or time code)

6 OUT point counter (or time code)

7 Current counter of the player

Cut Data Display

After selecting the cut number on the entry mode display, press CUT DATA to disply this.



1 Player number (The number indicates the 1, 2, or 3 of PLAYER INPUT jacks.)

2 Cut number

3 Cut name

4 IN point counter

5 OUT point counter

6 Video/audio effent icon (p. 41)

7 Synchronized playback point (p. 60)

You can look at the following items by scrolling with ↑, ↓.

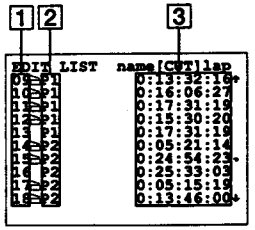
8 EDIT I/F or GPI points (p. 60, 61)

9 TITLE IN/OUT points (p. 55)

Edit List

Press EDIT LIST on the entry mode display to display this.

IN point list

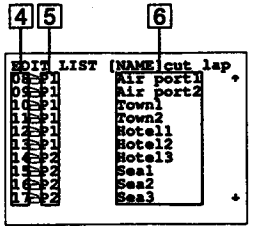


1 Cut number

2 Player number

3 IN point

Cut name list

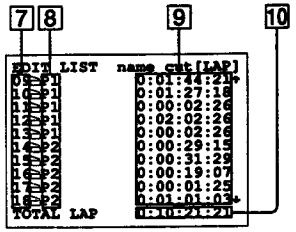


4 Cut number

5 Player number

6 Cut name

Lap time list



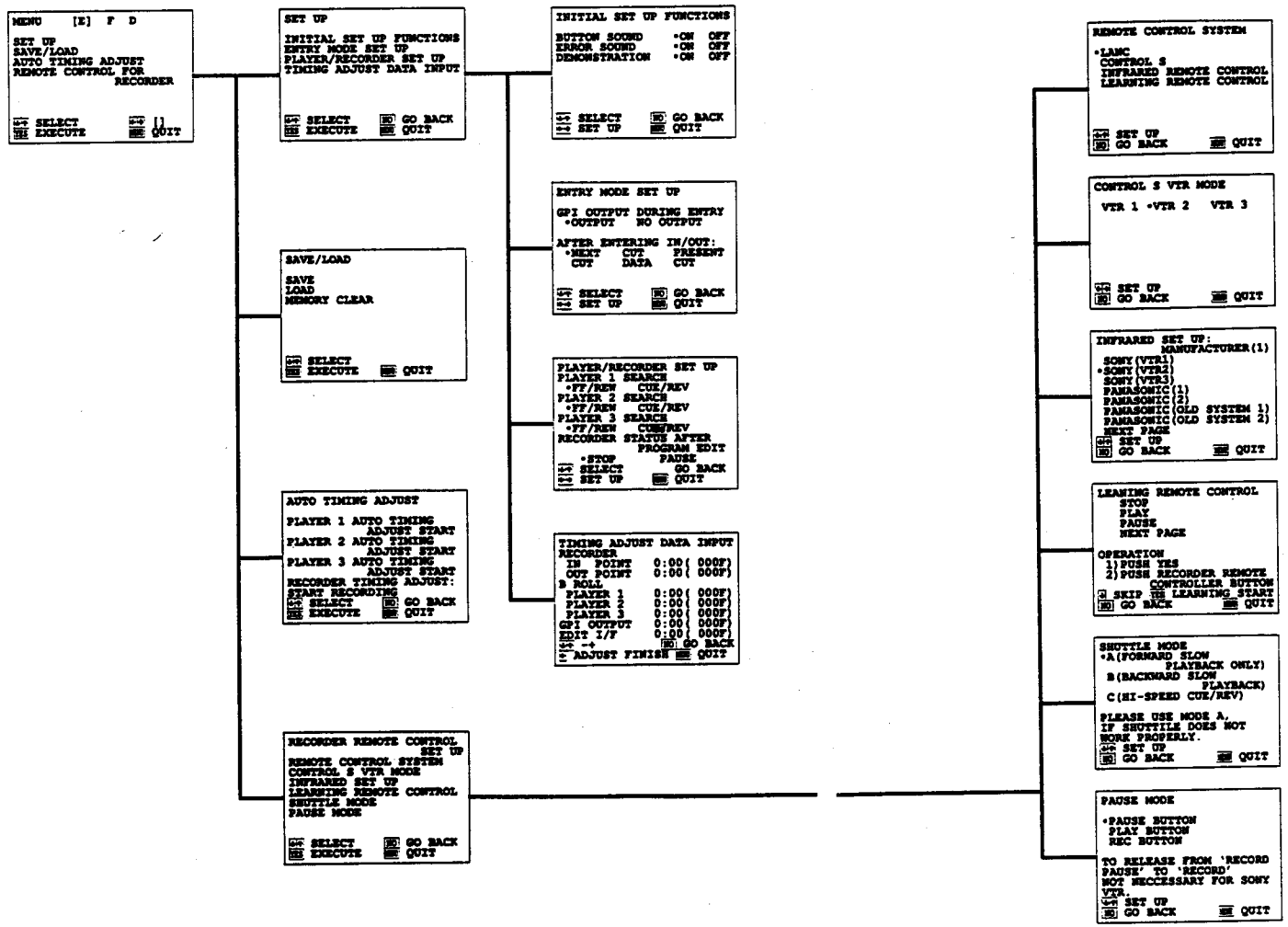
7 Cut number

8 Player number

9 Lap time (Playback time of each cut)

10 Total time of the program

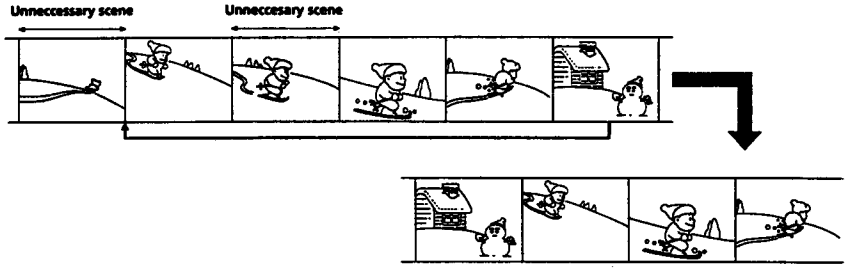
Menu Map


MENU [E] F D
SET UP
SAVE/LOAD
AUTO TIMING ADJUST
REMOTE CONTROL FOR RECORDER
SELECT
EXECUTE
QUIT
SET UP
INITIAL SET UP FUNCTIONS
ENTRY MODE SET UP
PLAYER/RECORDER SET UP
TIMING ADJUST DATA INPUT
SELECT
EXECUTE
GO BACK
QUIT
INITIAL SET UP FUNCTIONS
BUTTON SOUND •ON OFF
ERROR SOUND •ON OFF
DEMONSTRATION •ON OFF
SELECT
SET UP
GO BACK
QUIT
ENTRY MODE SET UP
GPI OUTPUT DURING ENTRY
•OUTPUT NO OUTPUT
AFTER ENTERING IN/OUT:
•NEXT CUT PRESENT
CUT DATA CUT
SELECT
SET UP
GO BACK
QUIT
SAVE/LOAD
SAVE
LOAD
MEMORY CLEAR
SELECT
EXECUTE
QUIT
PLAYER/RECORDER SET UP
PLAYER 1 SEARCH
•FF/REW CUE/REV
PLAYER 2 SEARCH
•FF/REW CUE/REV
PLAYER 3 SEARCH
•FF/REW CUE/REV
RECORDER STATUS AFTER
PROGRAM EDIT
•STOP PAUSE
SELECT
SET UP
GO BACK
QUIT
AUTO TIMING ADJUST
PLAYER 1 AUTO TIMING ADJUST START
PLAYER 2 AUTO TIMING ADJUST START
PLAYER 3 AUTO TIMING ADJUST START
RECORDER TIMING ADJUST:
START RECORDING
SELECT
EXECUTE
GO BACK
QUIT
TIMING ADJUST DATA INPUT
RECORDER
IN POINT 0:00(000F)
OUT POINT 0:00(000F)
B ROLL
PLAYER 1 0:00(000F)
PLAYER 2 0:00(000F)
PLAYER 3 0:00(000F)
GPI OUTPUT 0:00(000F)
EDIT I/F 0:00(000F)
- +
GO BACK
ADJUST FINISH
QUIT
RECORDER REMOTE CONTROL SET UP
REMOTE CONTROL SYSTEM
CONTROL S VTR MODE
INFRARED SET UP
LEARNING REMOTE CONTROL
SHUTTLE MODE
PAUSE MODE
SELECT
EXECUTE
GO BACK
QUIT
REMOTE CONTROL SYSTEM
•LANC
CONTROL S
INFRARED REMOTE CONTROL
LEARNING REMOTE CONTROL
SET UP
GO BACK
QUIT
CONTROL S VTR MODE
VTR 1 •VTR 2 VTR 3
SET UP
GO BACK
QUIT
INFRARED SET UP: MANUFACTURER(1)
SONY(VTR1)
•SONY(VTR2)
SONY(VTR3)
PANASONIC(1)
PANASONIC(2)
PANASONIC(OLD SYSTEM 1)
PANASONIC(OLD SYSTEM 2)
NEXT PAGE
SET UP
GO BACK
QUIT
LEARNING REMOTE CONTROL
STOP
PLAY
PAUSE
NEXT PAGE
OPERATION
1)PUSH YES
2)PUSH RECORDER REMOTE CONTROLLER BUTTON
SKIP YES LEARNING START
GO BACK
QUIT
SHUTTLE MODE
•A(FORWARD SLOW PLAYBACK ONLY)
B(BACKWARD SLOW PLAYBACK)
C(HI-SPEED CUE/REV)
PLEASE USE MODE A, IF SHUTTILE DOES NOT WORK PROPERLY.
SET UP
GO BACK
QUIT
PAUSE MODE
•PAUSE BUTTON
PLAY BUTTON
REC BUTTON
TO RELEASE FROM 'RECORD PAUSE' TO 'RECORD' NOT NECCESSARY FOR SONY VTR.
SET UP
GO BACK
QUIT

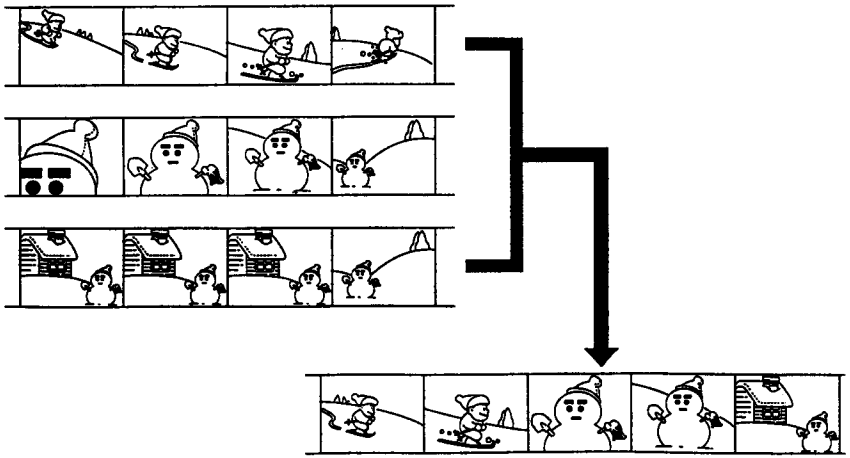
Introduction

What You Can Do with the Editing Controller/Titler

When you played back a tape, did you feel that it was too long and had some unnecessary scenes. Or, the tape would look more interesting if that scene come before this scene. ⇨ ***You can edit the tape like this (page 25).***



When you want to make one story using scenes from more than one tape ⇨ ***This unit enables you to edit using up to 3 pla***



The unit can generate special effects such as monotone and cinema (page 41) so that you can enjoy processing images. Furthermore, by connecting the Digital SEG (not supplied) to this unit, you can enjoy making various other effects.

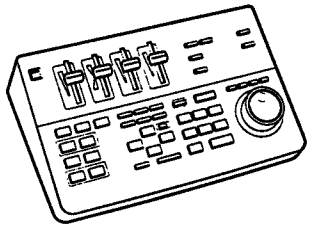
The keyboard allows you to create and superimpose the titles for video images (p. 53).

1-5

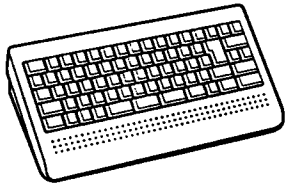
Supplied Accessories

Check that the following accessories are included.

Control unit (1)



Keyboard (1)



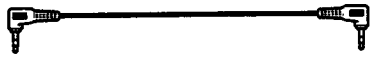
IR repeater (1)

Lithium Battery (1)

S video connecting cable (1)

A/V connecting cable (1)

LANC ⏻/CONTROL L connecting cables (2)



CONTROL L cable adaptors (2)

CONTROL S/GPI connecting cables (2)

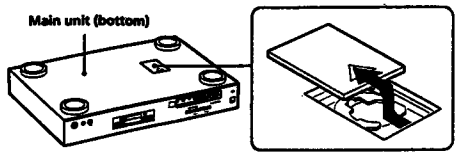
Power Cord (1)
Operation Manual (1)

Preparations

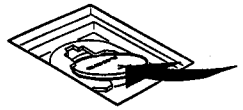
Installing the Lithium Battery

Install the supplied lithium battery to keep the data of program settings, timing adjustment setting, and the function of a non-Sony recorder stored. Note that the lithium battey has a positive (+) and negative (–) terminal as illustrated.
Be sure to install the lithium battery so that terminals on the battery match the terminals on the unit.

1 **Open the lithium battery compartment lid at the bottom of the main unit.**



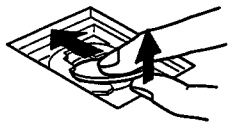
2 **Install the supplied lithium battery with + side facing out.**



3 **Close the lid.**

To remove the battery

Press the side of the battery as shown in the illustration. To avoid a short-circuit, do not use a metallic object.



Lithium battery life

Approximately 1 year in normal operation. When the battery becomes weak, an error message (p.64) appears. When this happens, replace the battery with a Sony CR2025 lithium battery. Use of another battery may present a risk of fire or explosion.

Notes on lithium battery

- Wipe the battery with a dry cloth to assure a good contact.
- Do not hold the battery with metallic tweezers as they may cause a short-circuit.

WARNING

Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

Caution

Keep the lithium battery out of the reach of children. Should the battery be swallowed, consult a doctor immediately.

Usable Video Equipment

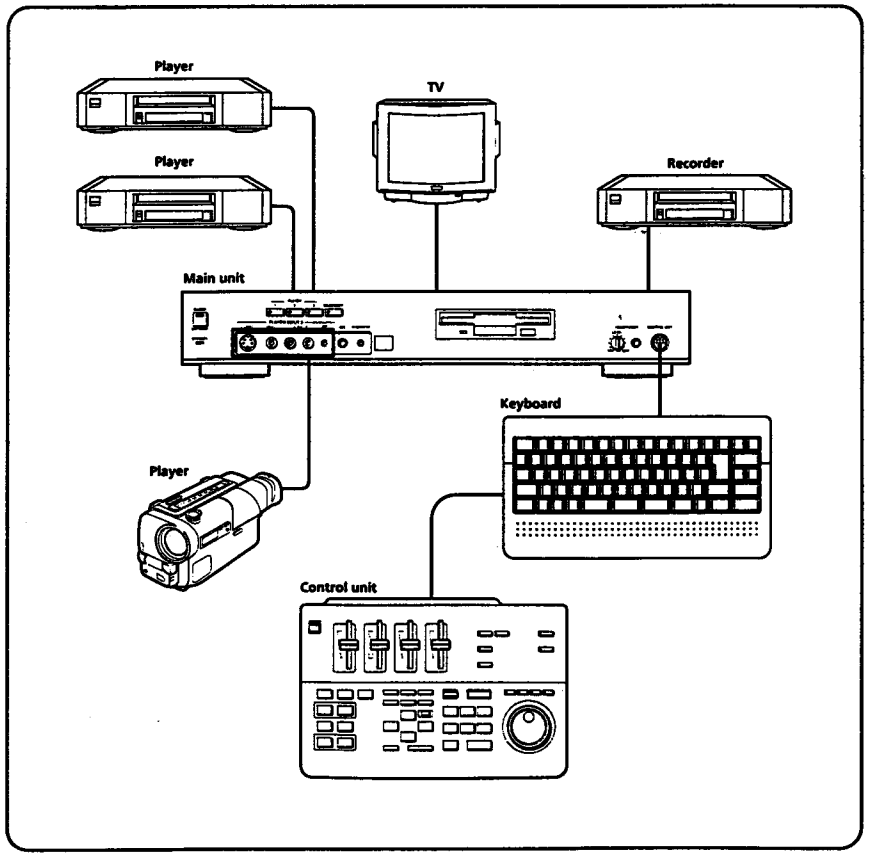
To use the video editing controller/titler, you need a player and recorder as specified below. For the descriptions on connecting the equipment, see from page 9.

Player

Video cassette player or video camera recorder that has:
- LANC ℄ connector
- CONTROL L or REMOTE connector (Sony's)

Recorder

Video cassette recorder or video camera recorder that has:
- LANC ℄ connector
- CONTROL L or REMOTE connector (Sony's)
- CONTROL S input connector (Sony's)
- Infrared remote control system (depending on models)



Note on LANC ℄ mark

℄ stands for Local Application Control Bus System. The ℄ control jack is used for controlling the tape transport of the video equipment and peripherals connected to it. This jack has the same function as the connectors indicated as CONTROL L or REMOTE.

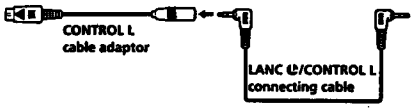
Usable Video Equipment

Notes on Connection

- Be sure to turn off the power of the equipment before connection.
- Be sure to use the equipment with its AC power adaptor connected to a wall outlet. If a battery pack is used and exhausted during editing, the editing will stop on the way.
- When both the player and the recorder have S video jacks, we recommend using the S video jacks to obtain a high quality picture.
- Connect the red plug to the right audio jack (red) and the white plug to the left audio jack (white).
- If you connect to both the S video and video input jacks, the S video signal is selected automatically. To view the video signal, disconnect the S video input jack.
- You may connect the player to the VIDEO INPUT jack and the recorder to the S VIDEO OUTPUT jack. Or, you may connect the player to the S VIDEO INPUT jack and the recorder to the VIDEO OUTPUT jack. The video signal input to the video edit controller/titler can be output through both the S VIDEO and VIDEO OUTPUT jacks.
- When you connect a monaural player to the AUDIO INPUT jacks, connect only the AUDIO-L plug (white). The sound is output from the left and right AUDIO OUTPUT jacks in monaural.
- When connecting a monaural player to the AUDIO OUTPUT jack, use a monaural audio cable.

Note on the supplied CONTROL L cable adaptors

Use this adaptor when the CONTROL L, REMOTE or LANC (L) connector is the 5-pin ( ) type.



Optional Connecting Cables

Use the supplied connecting cable to connect the player and recorder. When you need more cables, we recommend the following A/V connecting cables (not supplied).

A/V connecting cable (m/ft)		
VMC-810S	1/3	Audio: stereo ⟷ stereo
VMC-815S	1.5/5	
VMC-820S	2/7	
VMC-830S	3/10	Phono plug 3 ⟷ 3
VMC-910MS	1/3	Audio: stereo ⟷ monaural
VMC-915MS	1.5/5	
VMC-920MS	2/7	
VMC-930MS	3/10	Phono plug 3 ⟷ 2

S connecting cable (m/ft)		
YC-10V	1/3	
YC-15V	1.5/5	
YC-20V	2/7	4-pin plug — 4-pin plug
YC-30V	3/10	

Video connecting cable (m/ft)		
VMC-10	1/3	
VMC-15	1.5/5	
VMC-20	2/7	Phono plug — Phono plug
VMC-30	3/10	

LANC (L)/CONTROL L connecting cable (m/ft)		
VK-820	2/7	L-shaped stereo mini-miniplug
VK-810	2/7	5-pin DIN plug — L-shaped stereo mini-miniplug

EDIT I/F connecting cable (m/ft)		
SMF-540	2/7	8-pin mini DIN — 8-pin mini DIN

Audio connecting cable (m/ft)		
RK-C310	1/3	stereo ⟷ stereo
RK-C315	1.5/5	
RK-C320	2/7	
RK-C330	3/10	Phono plug 2 ⟷ 2
RK-C210	1/5	stereo ⟷ monaural
RK-C220	2/7	
RK-C230	3/10	Phono plug 2 ⟷ 1

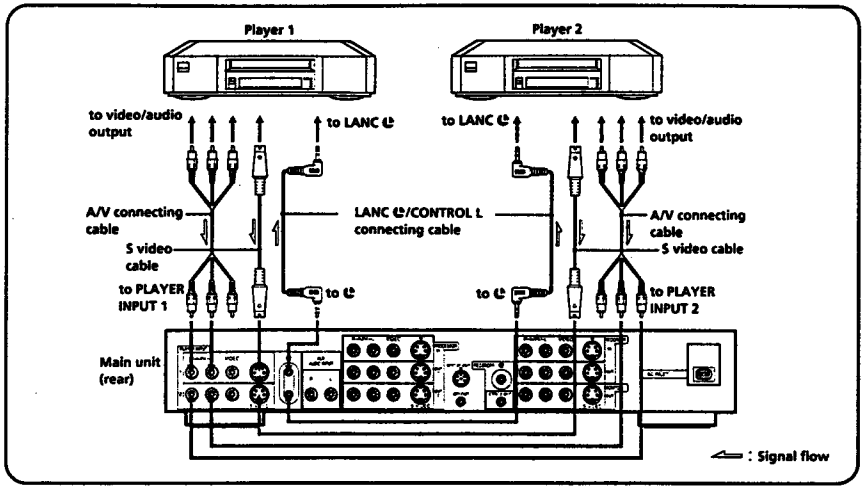
GPI connecting cable (m/ft)		
RK-G60	1/3	
RK-G67	2/7	Miniplug — Miniplug

Other accessories	Cable (m/ft)
Microphone F-PC30	2/7
Headpones MDR-34	2/7

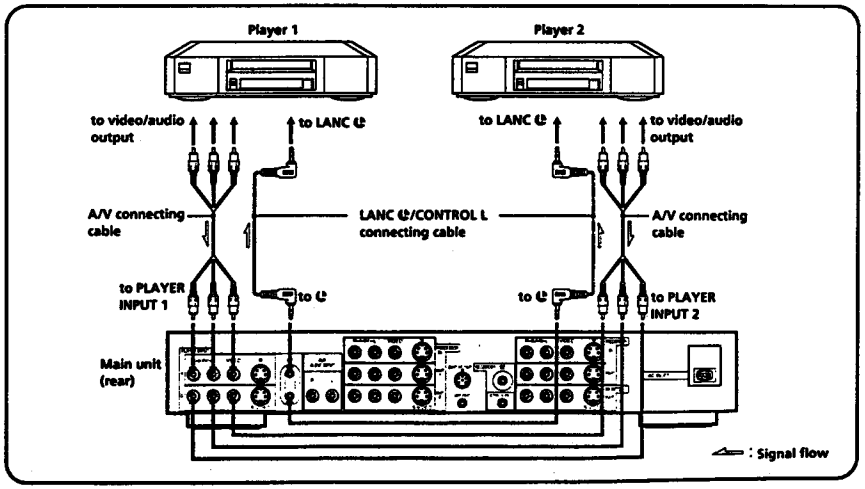
Connecting the Players

You can connect up to 3 players. Connect them to the PLAYER INPUT 1 and PLAYER INPUT 2 jacks on the rear and the PLAYER INPUT 3 on the front of the main unit.

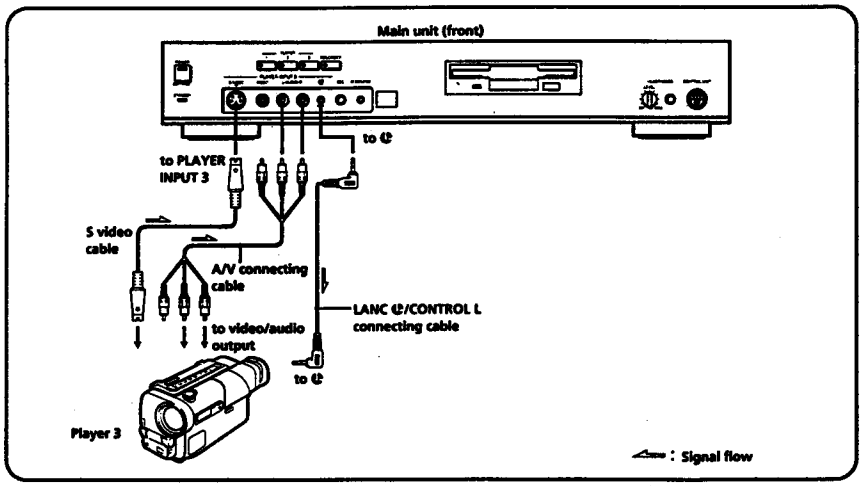
Connecting a Player with an S Video Jack



Connecting a Player without an S Video Jack

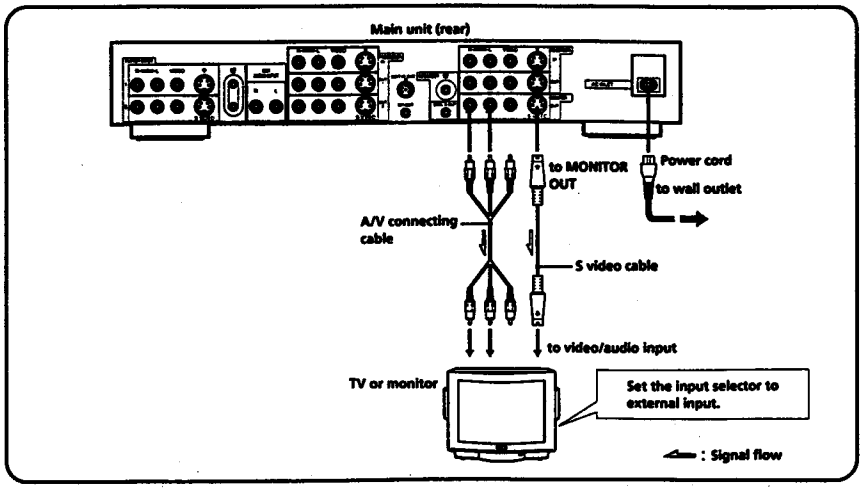


Connecting the Player to PLAYER INPUT 3 on the Front



When the player has no S video jack, connect to the VIDEO jack.

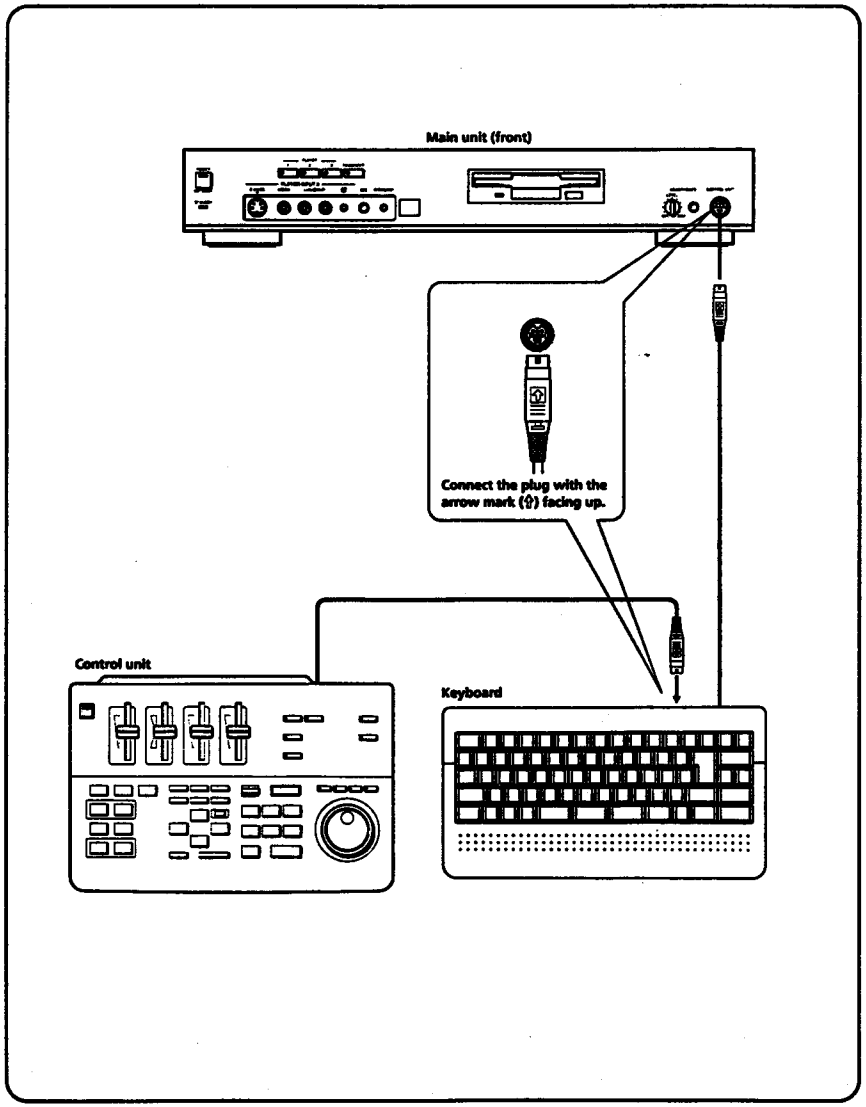
Connecting the TV and Power Sources



When the TV has no S video jack, connect to the VIDEO jack.

Connecting the Keyboard and Control Unit

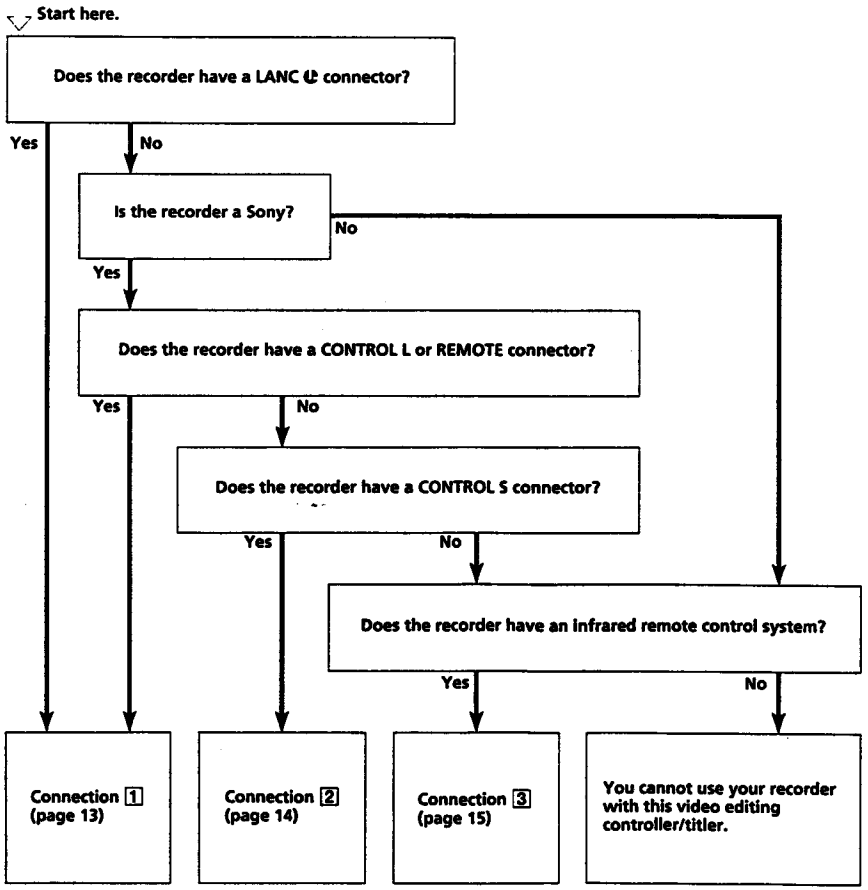
Connect the keyboard directly to the main unit, and the control unit to the keyboard.
You can connect the control unit directly to the main unit when you do not use the keyboard.



Connecting the Recorder

Which Connection to Make?

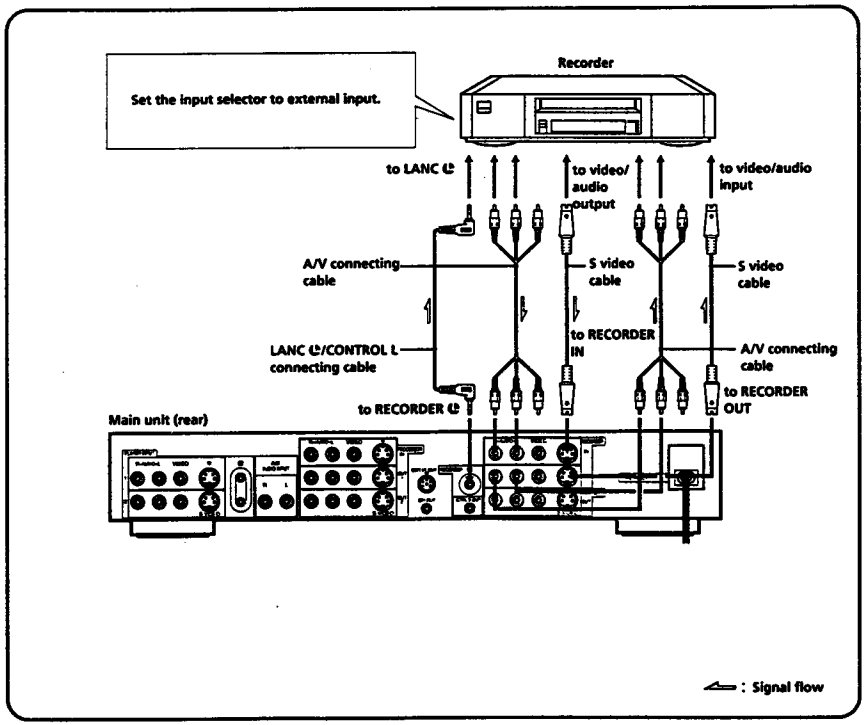
The way to connect the recorder depends on what kind of control jack or system the recorder has. Follow the flowchart below to find out the connection for your recorder. After connecting the recorder as described in the appropriate page, set the recorder control system (p.16).



Connection 1

Connect as illustrated below;
- when your recorder has a LANC connector, or
- when your recorder is a Sony and has a CONTROL L or REMOTE connector.

Note: When you connect to the VIDEO jack, do not use the S VIDEO jack. If you do, the video signal cannot be input. When the recorder has no S video jack, connect to the VIDEO jack.



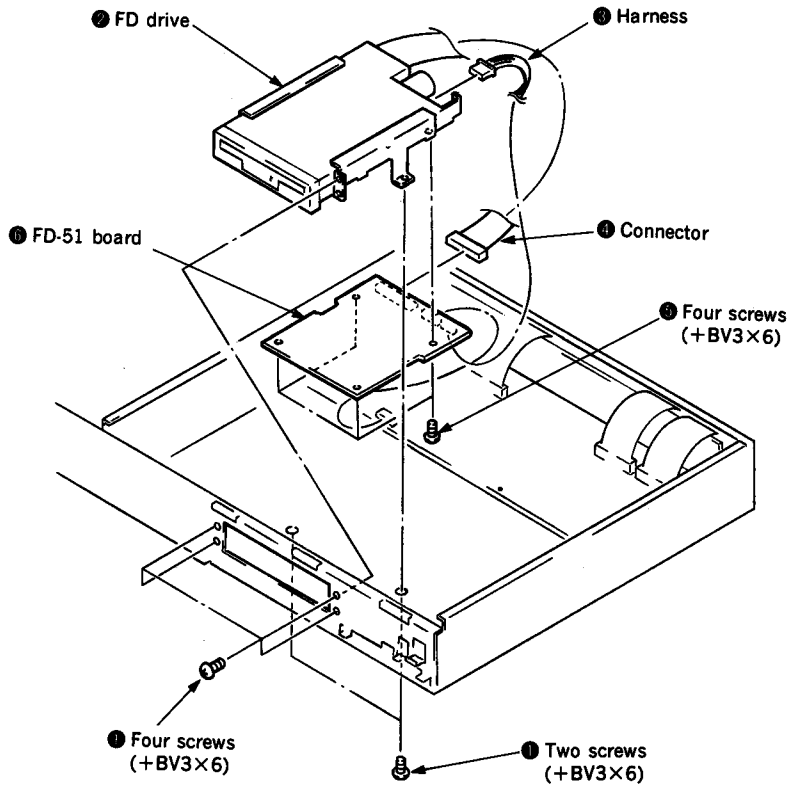
Sony Corporation
Consumer A & V Products Company
Personal A & V Products Div.

English
94E0429-1
Printed in Japan

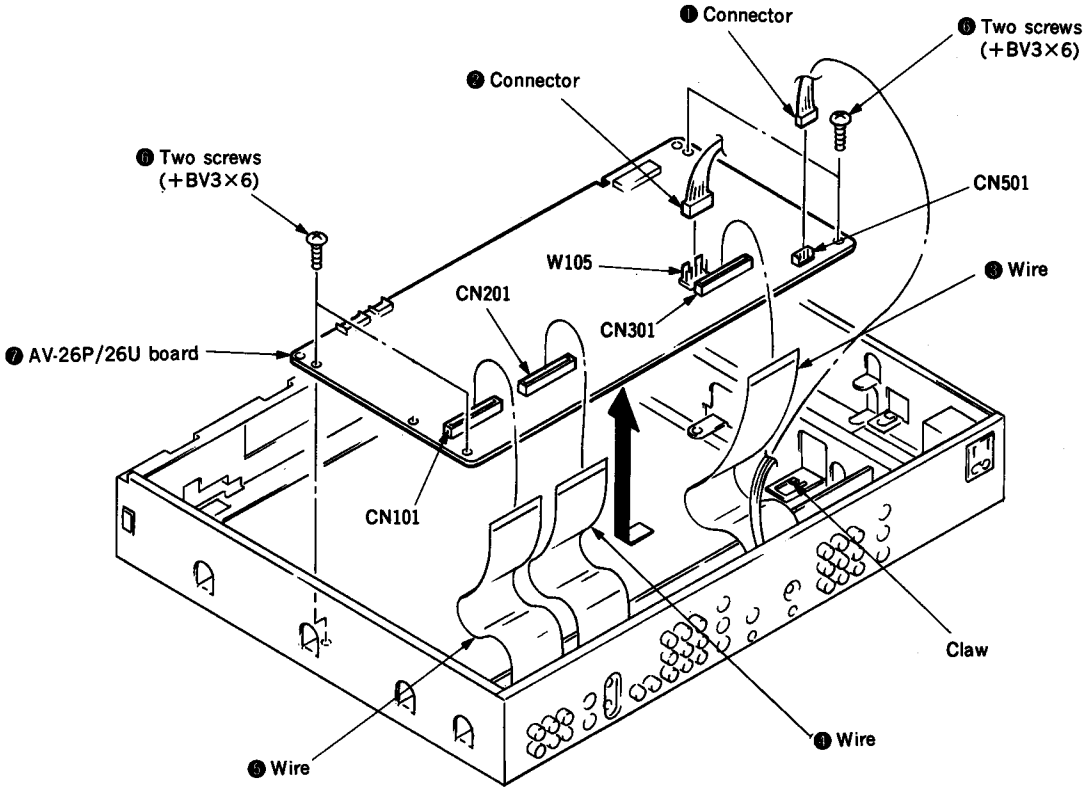
9-973-550-12

Published by Personal A & V Products Div.
Quality Engineering Dept.

2-3. REMOVAL OF FD DRIVE AND FD-51 BOARD

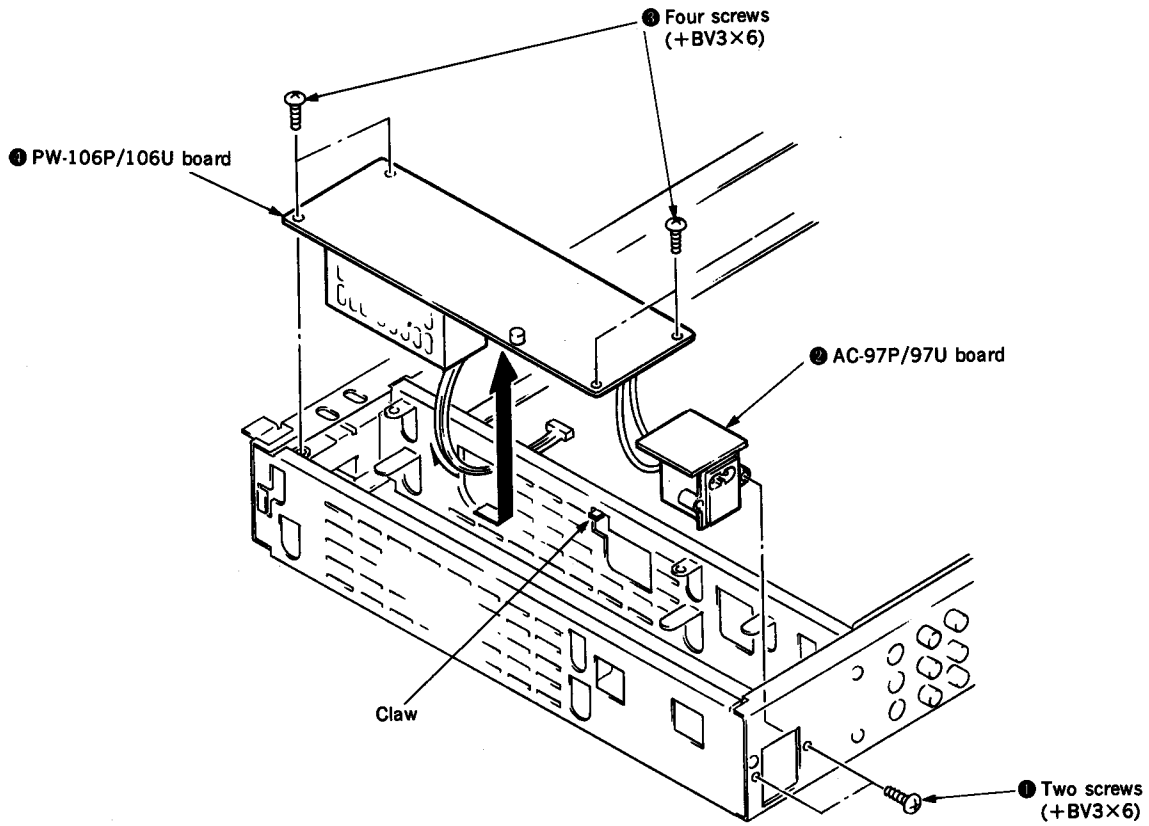


2-4. REMOVAL OF AV-26P/26U BOARD

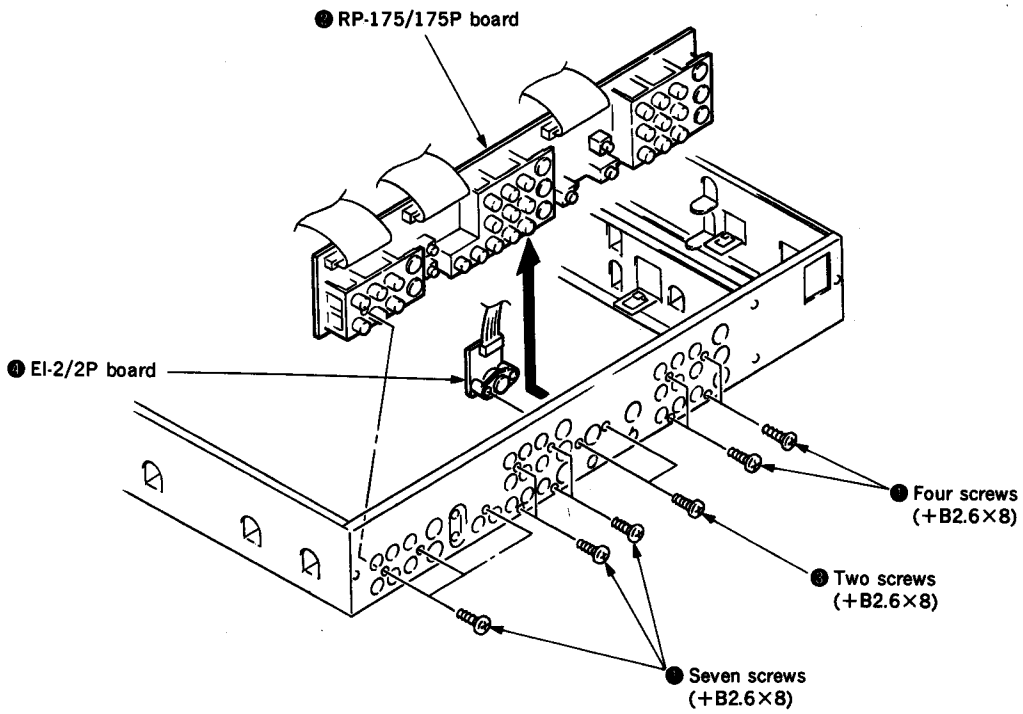


2-5. REMOVAL OF AC-97P/97U BOARD AND PW-106P/106U BOARD

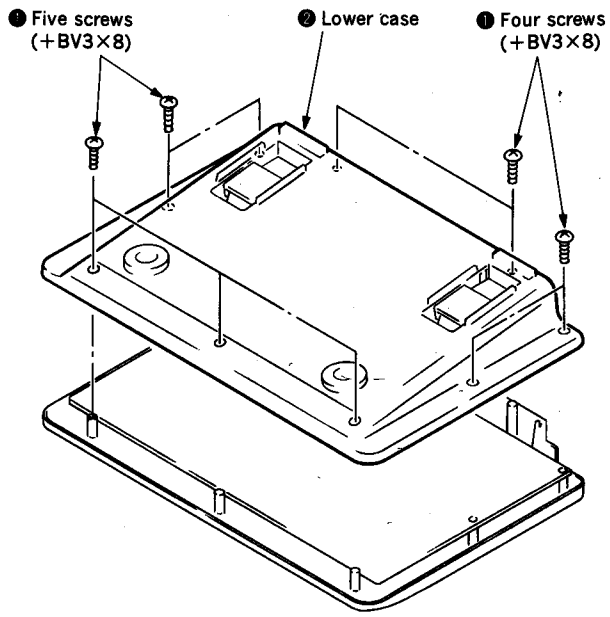
Note : The set positioned upside-down



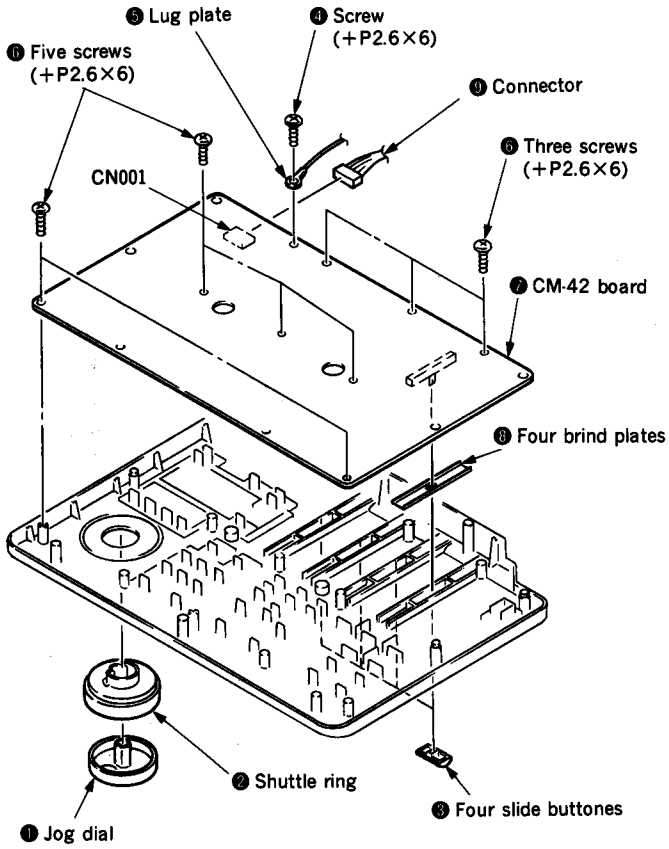
2-6. REMOVAL OF RP-175/175P BOARD AND EI-2/2P BOARD



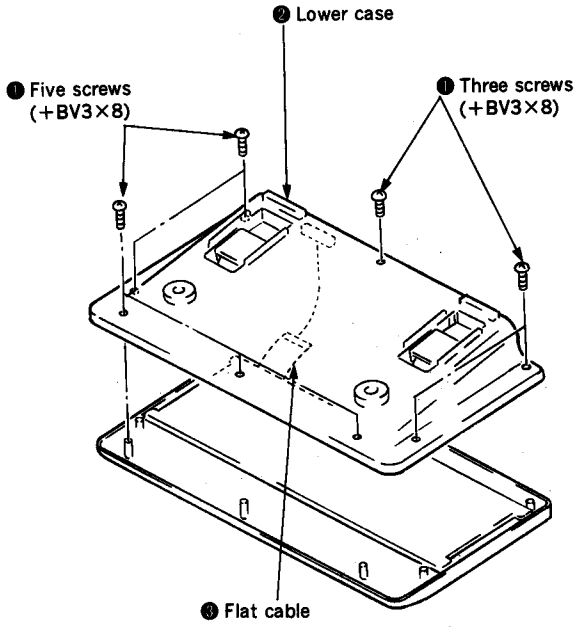
2-7. REMOVAL OF CONTROL UNIT LOWER CASE



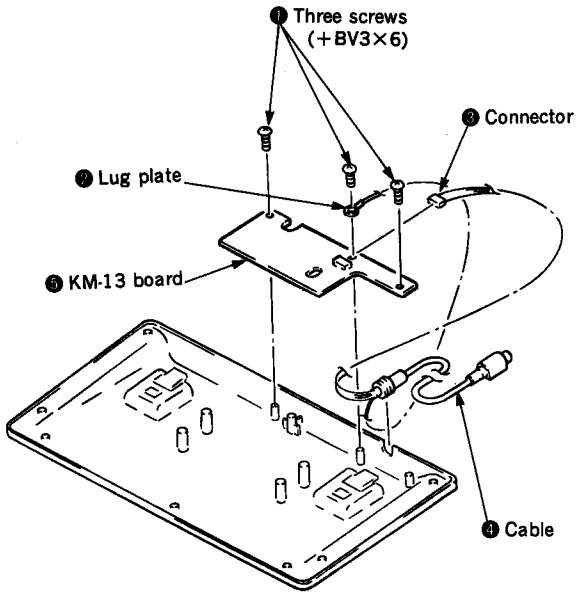
2-8. REMOVAL OF CM-42 BOARD (CONTROL UNIT)



2-9. REMOVAL OF KEYBOARD LOWER CASE

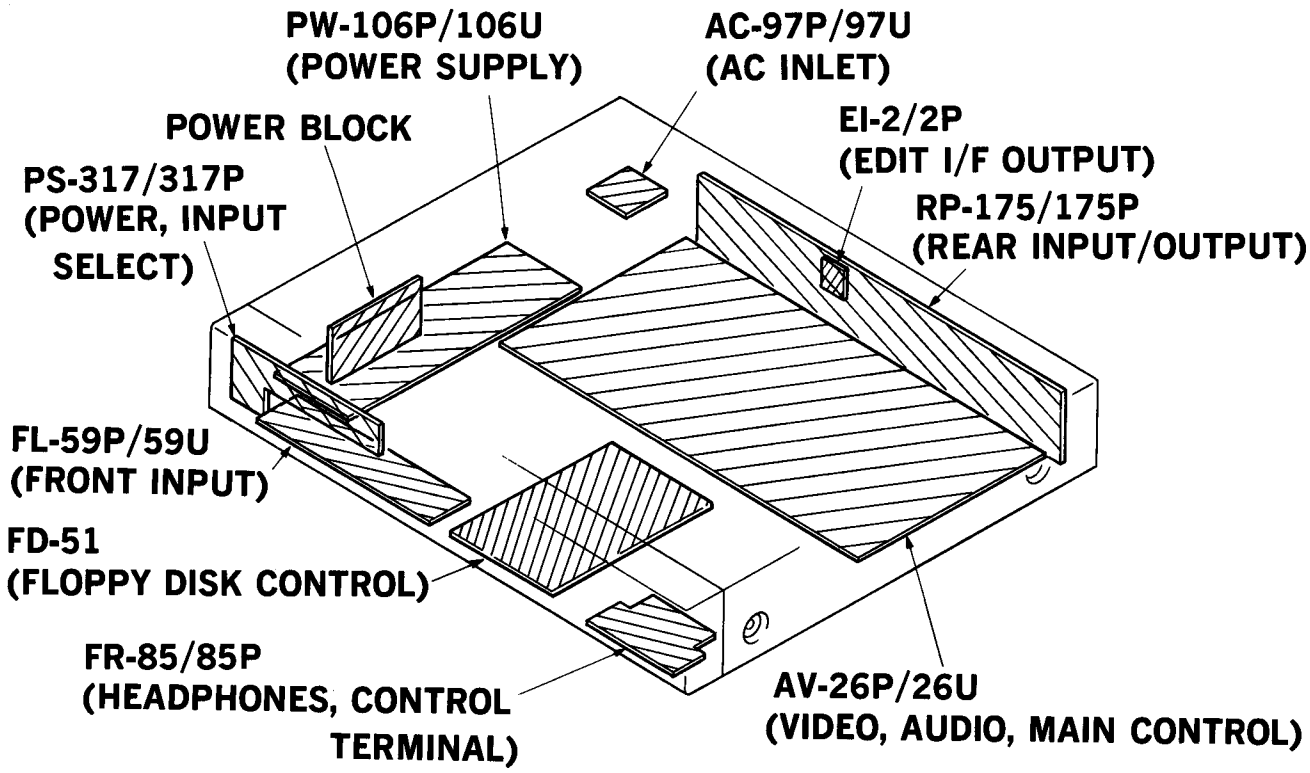


2-10. REMOVAL OF KM-13 BOARD (KEYBOARD)

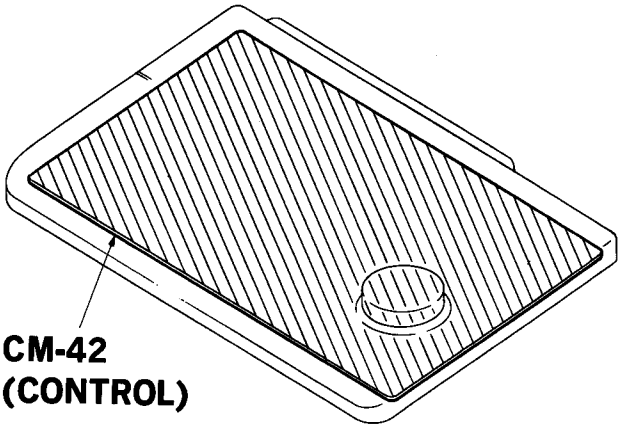


2-11. CIRCUIT BOARDS LOCATION

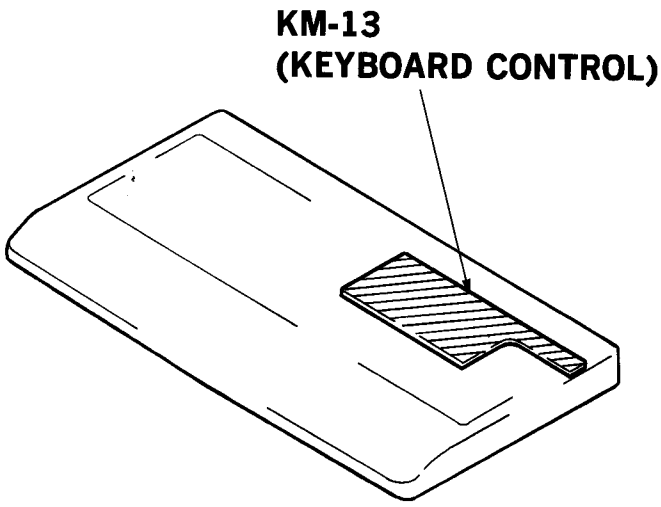
• MAIN UNIT



• CONTROL UNIT

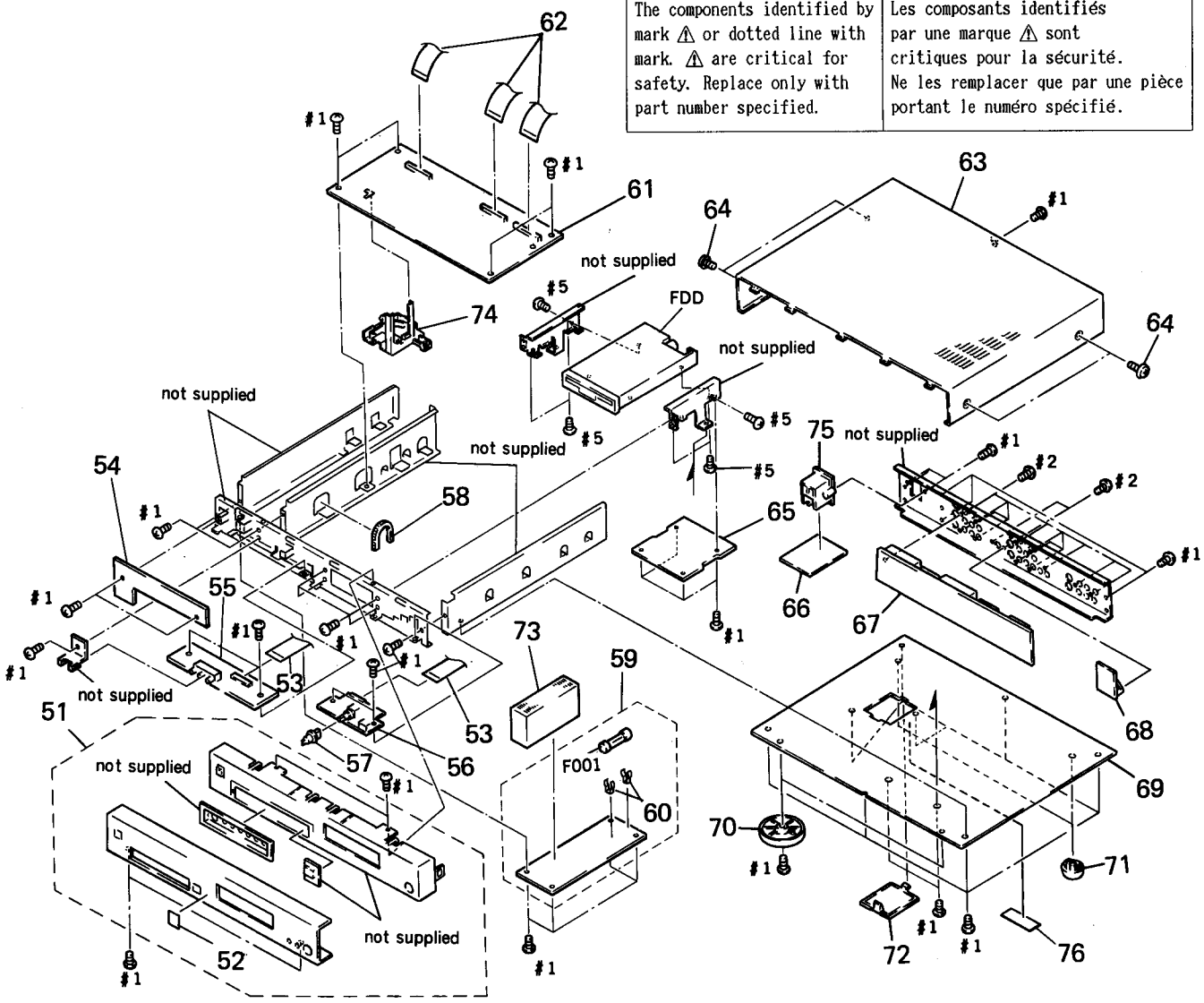


• KEYBOARD UNIT



5-1-2. MAIN OVERALL ASSEMBLY

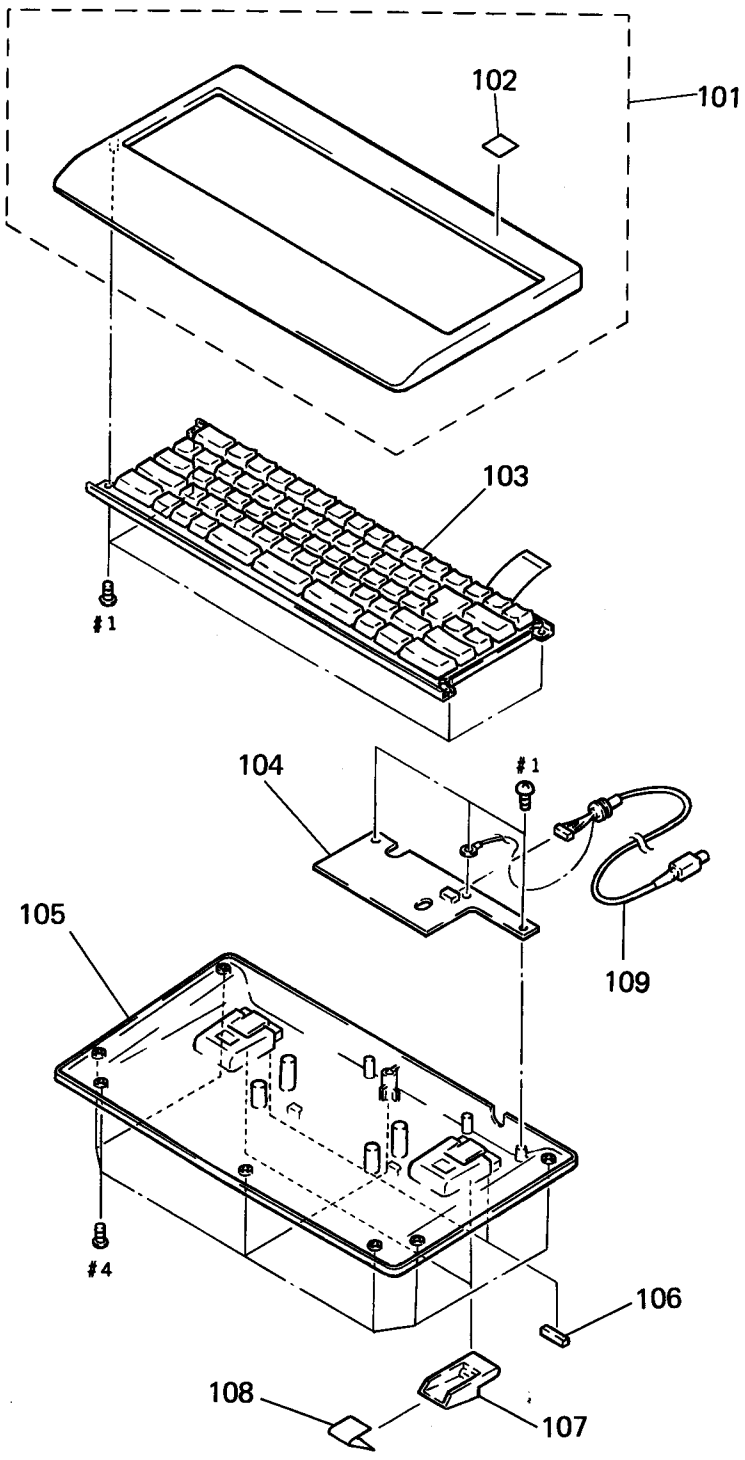
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



Ref. No.	Part No.	Description	Remark
51	X-3943-908-1	PLATE ORNAMENT ASSY, F (AEP, UK)	
51	X-3944-127-1	PLATE ASSY, ORNAMENTAL, F (US, Canadian)	
52	3-703-710-41	STICKER, SONY SYMBOL (12)	
53	1-751-996-11	CABLE, 1.0MM PITCH FLAT (FAF-1)	
* 54	A-7071-955-A	PS-317 BOARD, COMPLETE (US, Canadian)	
* 54	A-7072-021-A	PS-317P BOARD, COMPLETE (AEP, UK)	
* 55	A-7072-022-A	FL-59P BOARD, COMPLETE (AEP, UK)	
* 55	A-7072-047-A	FL-59U BOARD, COMPLETE (US, Canadian)	
* 56	A-7071-957-A	FR-85 BOARD, COMPLETE (US, Canadian)	
* 56	A-7072-023-A	FR-85P BOARD, COMPLETE (AEP, UK)	
57	4-929-707-01	KNOB (H.P)	
* 58	3-953-837-01	BUSHING, PROTECTION	
⚠* 59	A-7066-029-A	PW-106P BOARD, COMPLETE (AEP, UK)	
⚠* 59	A-7066-130-A	PW-106U BOARD, COMPLETE (US, Canadian)	
60	1-533-189-11	HOLDER, FUSE	
* 61	A-7066-028-A	AV-26P BOARD, COMPLETE (AEP, UK)	
* 61	A-7066-129-A	AV-26U BOARD, COMPLETE (US, Canadian)	
62	1-751-997-11	WIRE (FLAT) (FFC CONNECTOR)	
* 63	3-952-103-01	CASE, UPPER	
64	4-847-802-00	SCREW, CASE	

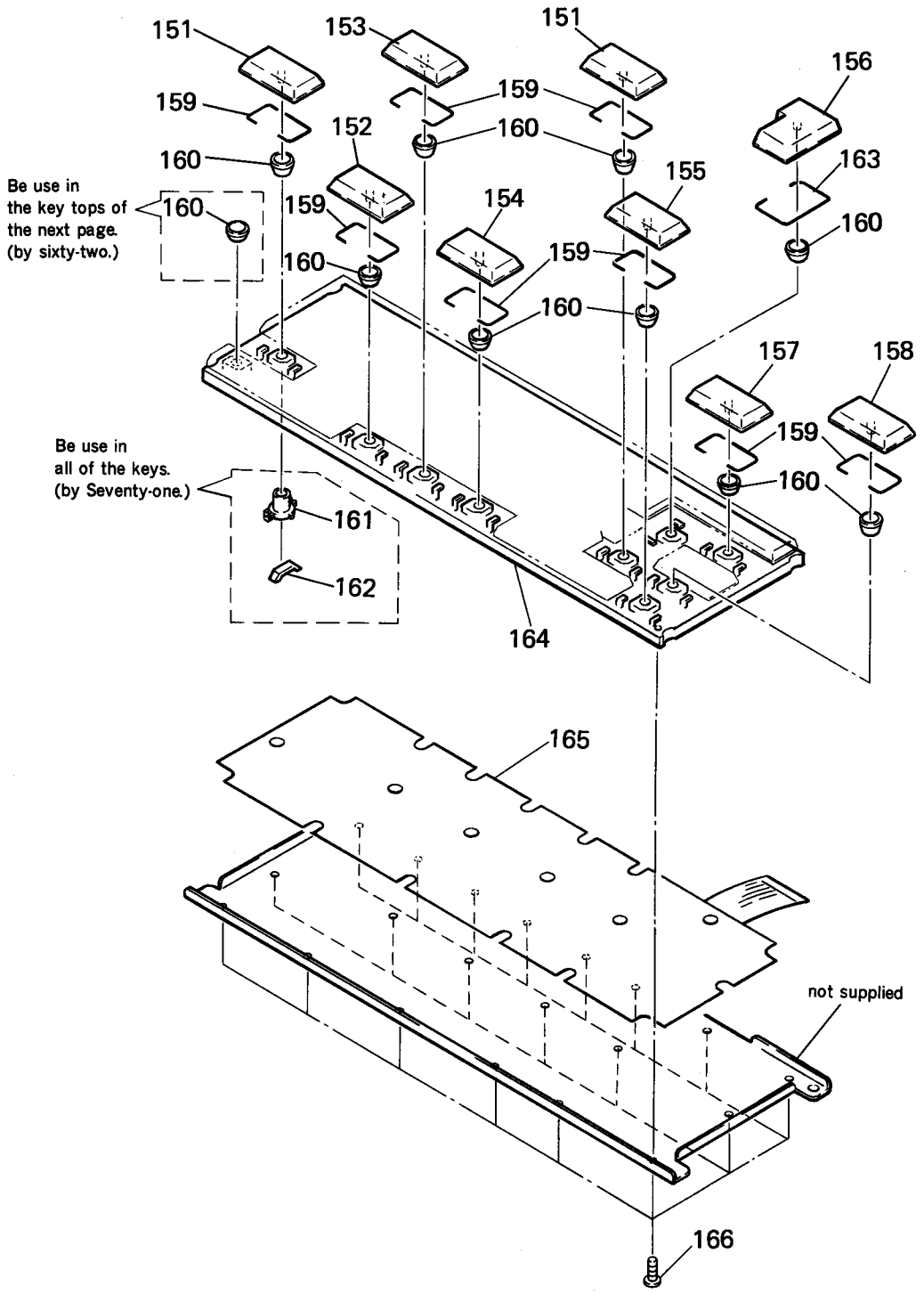
Ref. No.	Part No.	Description	Remark
* 65	A-7066-030-A	FD-51 BOARD, COMPLETE	
* 66	A-7072-018-A	AC-97P BOARD, COMPLETE (AEP, UK)	
* 66	A-7072-046-A	AC-97U BOARD, COMPLETE (US, Canadian)	
* 67	A-7071-953-A	RP-175 BOARD, COMPLETE (US, Canadian)	
* 67	A-7072-019-A	RP-175P BOARD, COMPLETE (AEP, UK)	
* 68	A-7071-954-A	EI-2 BOARD, COMPLETE (US, Canadian)	
* 68	A-7072-020-A	EI-2P BOARD, COMPLETE (AEP, UK)	
* 69	3-952-002-11	PLATE, BOTTOM	
70	X-3941-967-1	FOOT ASSY (FRONT)	
71	X-3701-069-4	FOOT ASSY, M.F	
* 72	2-352-647-01	LID, PRESET	
⚠73	1-413-895-11	POWER BLOCK (US, Canadian)	
⚠73	1-413-897-11	POWER BLOCK (AEP, UK)	
* 74	3-956-851-01	BLIND	
⚠75	1-251-134-11	INLET, AC (250V/2.5A) (AEP, UK)	
⚠75	1-251-135-11	INLET, AC (250V/1A) (US, Canadian)	
76	3-704-256-01	LABEL, CAUTION (US, Canadian)	
⚠F001	1-576-225-21	FUSE, GLASS TUBE (250V/1A) (AEP, UK)	
⚠F001	1-532-740-11	FUSE, GLASS TUBE (125V/1A) (US, Canadian)	

5-1-3. KEYBOARD COMPLETE ASSEMBLY



Ref. No.	Part No.	Description	Remark
101	X-3943-910-1	CASE ASSY, KEY BOARD UPPER	
102	3-703-710-41	STICKER, SONY SYMBOL (12)	
103	1-467-712-11	KEY BOARD UNIT	
* 104	A-7072-024-A	KM-13 BOARD, COMPLETE	
105	3-956-837-01	CASE, KEY BOARD LOWER	
106	4-864-324-11	SPACER	
107	3-953-461-01	FOOT	
* 108	3-954-645-01	SHEET (A)	
109	1-751-796-11	CORD, CONNECTION	

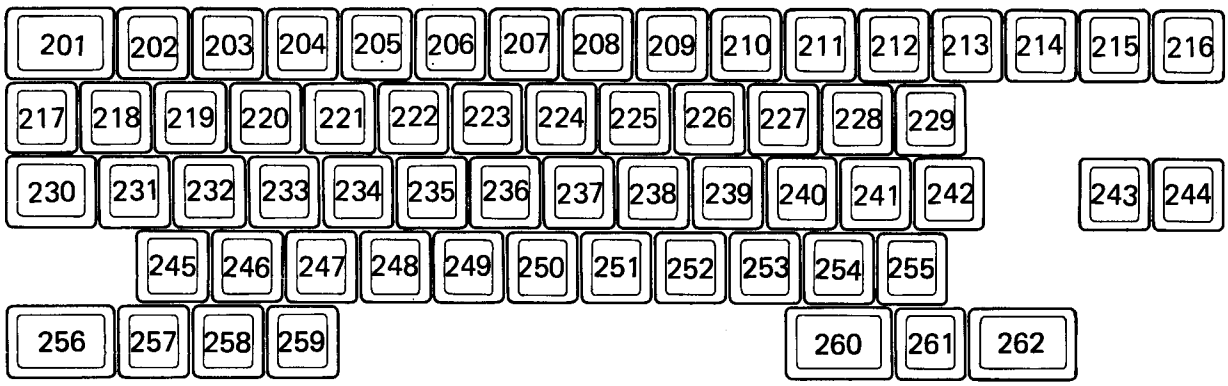
5-1-4. KEYBOARD UNIT (1)



Ref. No.	Part No.	Description	Remark
151	9-907-778-01	KEY TOP QG175A (SHIFT) (BLACK)	
152	9-907-761-01	KEY TOP QY200A (MARK TITLE) (BLACK)	
153	9-907-760-01	KEY TOP QY200A (MANUAL IN) (BLACK)	
154	9-907-759-01	KEY TOP QY200A (MANUAL OUT) (BLACK)	
155	9-907-755-01	KEY TOP QG200A (YES) (BLACK)	
156	9-907-781-01	KEY TOP QGG150A (↵) (BLACK)	
157	9-907-717-01	KEY TOP QG200A (↑) (BLACK)	
158	9-907-766-01	KEY TOP QG200A (↓) (BLACK)	

Ref. No.	Part No.	Description	Remark
159	9-907-749-01	SHAFT, CRANK	
160	9-907-750-01	RUBBER, CLICK ST-2	
161	9-907-751-01	CHIP, GUIDE	
162	9-907-752-01	RUBBER, CONTACT	
163	9-907-748-01	SHAFT, CRANK	
* 164	9-907-754-01	FRAME HJX-9	
165	9-907-753-01	MEMBRANE PRO	
166	9-907-747-01	SCREW (M2X4)	

5-1-5. KEYBOARD UNIT (2)



Ref. No.	Part No.	Description	Remark
201	9-907-746-01	KEY TOP Q150A (MENU) (BLACK)	
202	9-907-745-01	KEY TOP Q100A (1) (GRAY)	
203	9-907-744-01	KEY TOP Q100A (2) (GRAY)	
204	9-907-743-01	KEY TOP Q100A (3) (GRAY)	
205	9-907-742-01	KEY TOP Q100A (4) (GRAY)	
206	9-907-741-01	KEY TOP Q100A (5) (GRAY)	
207	9-907-740-01	KEY TOP Q100A (6) (GRAY)	
208	9-907-739-01	KEY TOP Q100A (7) (GRAY)	
209	9-907-738-01	KEY TOP Q100A (8) (GRAY)	
210	9-907-737-01	KEY TOP Q100A (9) (GRAY)	
211	9-907-736-01	KEY TOP Q100A (0) (GRAY)	
212	9-907-735-01	KEY TOP Q100A (-) (GRAY)	
213	9-907-734-01	KEY TOP Q100A (&) (GRAY)	
214	9-907-733-01	KEY TOP Q100A (BS) (BLACK)	
215	9-907-732-01	KEY TOP Q100A (DEL) (BLACK)	
216	9-907-731-01	KEY TOP Q100A (INS) (BLACK)	
217	9-907-730-01	KEY TOP Q100A (TITLE LIST) (BLACK)	
218	9-907-729-01	KEY TOP Q100A (Q) (GRAY)	
219	9-907-728-01	KEY TOP Q100A (W) (GRAY)	
220	9-907-727-01	KEY TOP Q100A (E) (GRAY)	
221	9-907-726-01	KEY TOP Q100A (R) (GRAY)	
222	9-907-725-01	KEY TOP Q100A (T) (GRAY)	
223	9-907-724-01	KEY TOP Q100A (Y) (GRAY)	
224	9-907-723-01	KEY TOP Q100A (U) (GRAY)	
225	9-907-722-01	KEY TOP Q100A (I) (GRAY)	
226	9-907-721-01	KEY TOP Q100A (O) (GRAY)	
227	9-907-720-01	KEY TOP Q100A (P) (GRAY)	
228	9-907-719-01	KEY TOP Q100A (Æ) (GRAY)	
229	9-907-718-01	KEY TOP (Œ) (GRAY)	
230	9-907-716-01	KEY TOP Q125A (CTRL) (BLACK)	
231	9-907-715-01	KEY TOP Q100A (A) (GRAY)	
232	9-907-714-01	KEY TOP Q100A (S) (GRAY)	
233	9-907-713-01	KEY TOP Q100A (D) (GRAY)	
234	9-907-712-01	KEY TOP QH100A (F) (GRAY)	
235	9-907-789-01	KEY TOP Q100A (G) (GRAY)	
236	9-907-788-01	KEY TOP Q100A (H) (GRAY)	
237	9-907-787-01	KEY TOP QH100A (J) (GRAY)	
238	9-907-786-01	KEY TOP Q100A (K) (GRAY)	
239	9-907-785-01	KEY TOP Q100A (L) (GRAY)	
240	9-907-784-01	KEY TOP Q100A ( ) (GRAY)	
241	9-907-783-01	KEY TOP Q100A (?) (GRAY)	
242	9-907-782-01	KEY TOP Q100A (,) (GRAY)	
243	9-907-780-01	KEY TOP Q100A (←) (BLACK)	
244	9-907-779-01	KEY TOP Q100A (→) (BLACK)	
245	9-907-777-01	KEY TOP Q100A (Z) (GRAY)	
246	9-907-776-01	KEY TOP Q100A (X) (GRAY)	
247	9-907-775-01	KEY TOP Q100A (C) (GRAY)	
248	9-907-774-01	KEY TOP Q100A (V) (GRAY)	
249	9-907-773-01	KEY TOP Q100A (B) (GRAY)	
250	9-907-772-01	KEY TOP Q100A (N) (GRAY)	
251	9-907-771-01	KEY TOP Q100A (M) (GRAY)	
252	9-907-770-01	KEY TOP Q100A (ϕ) (GRAY)	
253	9-907-769-01	KEY TOP Q100A (β) (GRAY)	
254	9-907-768-01	KEY TOP Q100A (!) (GRAY)	
255	9-907-767-01	KEY TOP Q100A ( ) (GRAY)	
256	9-907-765-01	KEY TOP Q150A (CAPS) (BLACK)	
257	9-907-764-01	KEY TOP Q100A (font) (BLACK)	
258	9-907-763-01	KEY TOP Q100A (size) (BLACK)	
259	9-907-762-01	KEY TOP Q100A (colour) (BLACK)	
260	9-907-758-01	KEY TOP Q150A (SUPER-TITLE) (BLACK)	
261	9-907-757-01	KEY TOP Q100A (COPY) (BLACK)	
262	9-907-756-01	KEY TOP Q150A (NO) (BLACK)	

5-2. ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-7072-018-A	AC-97P BOARD, COMPLETE (AEP, UK) (Supplied with PW-106P Board)			
*	A-7072-046-A	AC-97U BOARD, COMPLETE (US, Canadian) (Supplied with PW-106U Board)			
		********** (Ref. No 5,000 series)			
		< CONNECTOR >			
⚠CN900	1-251-134-11	INLET, AC (NONPOLAR) (AEP, UK)			
⚠CN900	1-251-135-11	INLET, AC. (US, Canadian)			
		**********			
*	A-7066-028-A	AV-26P BOARD, COMPLETE (AEP, UK)			
*	A-7066-129-A	AV-26U BOARD, COMPLETE (US, Canadian)			
		********** (Ref. No 1,000 series)			
		< BATTERY HOLDER >			
BAT800	1-550-104-21	HOLDER, BATTERY			
		< CAPACITOR >			
C013	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C013	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C014	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C015	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C015	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C016	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C017	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C018	1-126-204-11	ELECT CHIP	47uF	20%	16V
C019	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C020	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C020	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C021	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C022	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C022	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C023	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C024	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C025	1-126-204-11	ELECT CHIP	47uF	20%	16V
C026	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C060	1-163-237-11	CERAMIC CHIP (AEP, UK)	27PF	5%	50V
C061	1-163-141-00	CERAMIC CHIP (AEP, UK)	0.001uF	5%	50V
C062	1-163-141-00	CERAMIC CHIP (AEP, UK)	0.001uF	5%	50V
C063	1-164-232-11	CERAMIC CHIP (AEP, UK)	0.01uF		50V
C064	1-163-087-00	CERAMIC CHIP (AEP, UK)	4PF		50V
C069	1-163-125-00	CERAMIC CHIP (AEP, UK)	220PF	5%	50V
C070	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C071	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C072	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C073	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C074	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C075	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C076	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C077	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C078	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C079	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C092	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C101	1-124-779-00	ELECT CHIP	10uF	20%	16V
C102	1-124-779-00	ELECT CHIP	10uF	20%	16V
C103	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C104	1-124-779-00	ELECT CHIP	10uF	20%	16V
C105	1-124-779-00	ELECT CHIP	10uF	20%	16V
C106	1-124-779-00	ELECT CHIP	10uF	20%	16V

Ref.No.	Part No.	Description		Remark	
C107	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C108	1-124-779-00	ELECT CHIP	10uF	20%	16V
C109	1-124-779-00	ELECT CHIP	10uF	20%	16V
C110	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C111	1-124-779-00	ELECT CHIP	10uF	20%	16V
C112	1-124-779-00	ELECT CHIP	10uF	20%	16V
C113	1-124-779-00	ELECT CHIP	10uF	20%	16V
C114	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C115	1-124-779-00	ELECT CHIP	10uF	20%	16V
C116	1-124-779-00	ELECT CHIP	10uF	20%	16V
C117	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C118	1-124-779-00	ELECT CHIP	10uF	20%	16V
C119	1-124-779-00	ELECT CHIP	10uF	20%	16V
C120	1-124-779-00	ELECT CHIP	10uF	20%	16V
C121	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C122	1-124-779-00	ELECT CHIP	10uF	20%	16V
C123	1-124-779-00	ELECT CHIP	10uF	20%	16V
C124	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C125	1-124-779-00	ELECT CHIP	10uF	20%	16V
C126	1-124-779-00	ELECT CHIP	10uF	20%	16V
C127	1-124-779-00	ELECT CHIP	10uF	20%	16V
C128	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C141	1-124-779-00	ELECT CHIP	10uF	20%	16V
C151	1-124-779-00	ELECT CHIP	10uF	20%	16V
C152	1-124-779-00	ELECT CHIP	10uF	20%	16V
C153	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C154	1-124-779-00	ELECT CHIP	10uF	20%	16V
C155	1-124-779-00	ELECT CHIP	10uF	20%	16V
C156	1-124-779-00	ELECT CHIP	10uF	20%	16V
C157	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C161	1-124-779-00	ELECT CHIP	10uF	20%	16V
C162	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C163	1-124-779-00	ELECT CHIP	10uF	20%	16V
C164	1-124-779-00	ELECT CHIP	10uF	20%	16V
C165	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C171	1-124-779-00	ELECT CHIP	10uF	20%	16V
C172	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C173	1-124-779-00	ELECT CHIP	10uF	20%	16V
C174	1-124-779-00	ELECT CHIP	10uF	20%	16V
C175	1-124-779-00	ELECT CHIP	10uF	20%	16V
C176	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C177	1-124-779-00	ELECT CHIP	10uF	20%	16V
C178	1-124-779-00	ELECT CHIP	10uF	20%	16V
C179	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C180	1-124-779-00	ELECT CHIP	10uF	20%	16V
C181	1-124-779-00	ELECT CHIP	10uF	20%	16V
C182	1-124-779-00	ELECT CHIP	10uF	20%	16V
C183	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C184	1-124-779-00	ELECT CHIP	10uF	20%	16V

Ref.No.	Part No.	Description		Remark	
C202	1-126-193-11	ELECT	1uF	20%	50V
C203	1-124-779-00	ELECT CHIP	10uF	20%	16V
C204	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C205	1-124-779-00	ELECT CHIP	10uF	20%	16V
C211	1-124-779-00	ELECT CHIP	10uF	20%	16V
C212	1-124-779-00	ELECT CHIP	10uF	20%	16V
C213	1-124-779-00	ELECT CHIP	10uF	20%	16V
C214	1-124-779-00	ELECT CHIP	10uF	20%	16V
C215	1-124-779-00	ELECT CHIP	10uF	20%	16V
C216	1-124-779-00	ELECT CHIP	10uF	20%	16V
C217	1-124-779-00	ELECT CHIP	10uF	20%	16V
C218	1-124-779-00	ELECT CHIP	10uF	20%	16V
C219	1-124-779-00	ELECT CHIP	10uF	20%	16V
C220	1-124-779-00	ELECT CHIP	10uF	20%	16V
C221	1-124-779-00	ELECT CHIP	10uF	20%	16V
C231	1-124-779-00	ELECT CHIP	10uF	20%	16V
C232	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C241	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C242	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C243	1-124-779-00	ELECT CHIP	10uF	20%	16V
C244	1-124-779-00	ELECT CHIP	10uF	20%	16V
C251	1-124-779-00	ELECT CHIP	10uF	20%	16V
C252	1-124-779-00	ELECT CHIP	10uF	20%	16V
C261	1-124-779-00	ELECT CHIP	10uF	20%	16V
C262	1-124-779-00	ELECT CHIP	10uF	20%	16V
C263	1-126-193-11	ELECT	1uF	20%	50V
C264	1-126-193-11	ELECT	1uF	20%	50V
C265	1-126-193-11	ELECT	1uF	20%	50V
C266	1-126-193-11	ELECT	1uF	20%	50V
C267	1-124-779-00	ELECT CHIP	10uF	20%	16V
C271	1-124-779-00	ELECT CHIP	10uF	20%	16V
C272	1-124-779-00	ELECT CHIP	10uF	20%	16V
C282	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C291	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C292	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C293	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C294	1-124-779-00	ELECT CHIP	10uF	20%	16V
C295	1-124-779-00	ELECT CHIP	10uF	20%	16V
C296	1-124-779-00	ELECT CHIP	10uF	20%	16V
C297	1-124-779-00	ELECT CHIP	10uF	20%	16V
C300	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C301	1-124-779-00	ELECT CHIP	10uF	20%	16V
C302	1-124-779-00	ELECT CHIP	10uF	20%	16V
C303	1-124-779-00	ELECT CHIP	10uF	20%	16V
C304	1-124-779-00	ELECT CHIP	10uF	20%	16V
C305	1-124-779-00	ELECT CHIP	10uF	20%	16V
C306	1-124-779-00	ELECT CHIP	10uF	20%	16V
C307	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C308	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C309	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C310	1-124-779-00	ELECT CHIP	10uF	20%	16V
C311	1-124-779-00	ELECT CHIP	10uF	20%	16V
C312	1-124-779-00	ELECT CHIP	10uF	20%	16V
C313	1-124-779-00	ELECT CHIP	10uF	20%	16V
C314	1-124-779-00	ELECT CHIP	10uF	20%	16V
C315	1-124-779-00	ELECT CHIP	10uF	20%	16V
C316	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C317	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C318	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C319	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C320	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C321	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C322	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C323	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C324	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C325	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C326	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C327	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C328	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C329	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C330	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C331	1-124-779-00	ELECT CHIP	10uF	20%	16V
C333	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C334	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C335	1-124-360-00	ELECT	1000uF	20%	16V
C341	1-124-779-00	ELECT CHIP	10uF	20%	16V
C343	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C344	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C345	1-124-360-00	ELECT	1000uF	20%	16V
C351	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C353	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C354	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C361	1-124-779-00	ELECT CHIP	10uF	20%	16V
C363	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C364	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C365	1-124-360-00	ELECT	1000uF	20%	16V
C371	1-124-779-00	ELECT CHIP	10uF	20%	16V
C373	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C374	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C375	1-124-360-00	ELECT	1000uF	20%	16V
C381	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C383	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C384	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C401	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C401	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C402	1-164-232-11	CERAMIC CHIP	0.01uF		50V

Ref. No.	Part No.	Description			Remark
C403	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C403	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C404	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C405	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C405	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C406	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C407	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C408	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C409	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C410	1-126-193-11	ELECT	1uF	20%	50V
C411	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C412	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C413	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C414	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C415	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C416	1-163-249-11	CERAMIC CHIP (AEP, UK)	82PF	5%	50V
C416	1-163-251-11	CERAMIC CHIP (US, Canadian)	100PF	5%	50V
C417	1-163-099-00	CERAMIC CHIP (AEP, UK)	18PF	5%	50V
C417	1-163-235-11	CERAMIC CHIP (US, Canadian)	22PF	5%	50V
C418	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C419	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C441	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C442	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C443	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C444	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C445	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C446	1-124-779-00	ELECT CHIP	10uF	20%	16V
C447	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C448	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C449	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C450	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C451	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C453	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C454	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C455	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C456	1-124-779-00	ELECT CHIP	10uF	20%	16V
C457	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C458	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C459	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C460	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C461	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C462	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V

Ref. No.	Part No.	Description			Remark
C463	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C464	1-163-141-00	CERAMIC CHIP	0. 001uF	5%	50V
C465	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C466	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C467	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C468	1-126-204-11	ELECT CHIP	47uF	20%	16V
C469	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C470	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C471	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C472	1-164-005-11	CERAMIC CHIP	0. 47uF		25V
C473	1-126-193-11	ELECT	1uF	20%	50V
C474	1-126-194-21	ELECT	1. 5uF	20%	50V
C475	1-163-989-11	CERAMIC CHIP	0. 033uF	10%	25V
C476	1-164-699-11	CERAMIC CHIP (AEP, UK)	0. 0033uF	5%	50V
C476	1-163-989-11	CERAMIC CHIP (US, Canadian)	0. 033uF	10%	25V
C477	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C478	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C479	1-163-141-00	CERAMIC CHIP	0. 001uF	5%	50V
C480	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C481	1-126-194-21	ELECT	1. 5uF	20%	50V
C482	1-124-779-00	ELECT CHIP	10uF	20%	16V
C483	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C484	1-163-037-11	CERAMIC CHIP	0. 022uF	10%	25V
C485	1-124-779-00	ELECT CHIP (AEP, UK)	10uF	20%	16V
C485	1-126-193-11	ELECT (US, Canadian)	1uF	20%	50V
C486	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C487	1-163-092-00	CERAMIC CHIP	9PF	0. 25PF	50V
C488	1-163-227-11	CERAMIC CHIP	10PF	0. 5PF	50V
C489	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C490	1-164-232-11	CERAMIC CHIP (US, Canadian)	0. 01uF		50V
C491	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C492	1-126-204-11	ELECT CHIP	47uF	20%	16V
C493	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C494	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C498	1-164-232-11	CERAMIC CHIP (AEP, UK)	0. 01uF		50V
C499	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C501	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C502	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C503	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C504	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C505	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C511	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C521	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C522	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C523	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C531	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C532	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C533	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C534	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C535	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C536	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C537	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C538	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C539	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C540	1-164-505-11	CERAMIC CHIP	2. 2uF		16V
C541	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C551	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C552	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C553	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C554	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C555	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C556	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C557	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C561	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C562	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C563	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C564	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C581	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C582	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C583	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C584	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C601	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C602	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C603	1-164-005-11	CERAMIC CHIP	0. 47uF		25V
C604	1-164-005-11	CERAMIC CHIP	0. 47uF		25V
C605	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C606	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C607	1-126-204-11	ELECT CHIP	47uF	20%	16V
C608	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C609	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C610	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C611	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C612	1-164-232-11	CERAMIC CHIP	0. 01uF		50V
C613	1-164-005-11	CERAMIC CHIP	0. 47uF		25V
C614	1-164-005-11	CERAMIC CHIP	0. 47uF		25V
C615	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C616	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C617	1-126-204-11	ELECT CHIP	47uF	20%	16V
C618	1-126-206-11	ELECT CHIP	100uF	20%	6. 3V
C619	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C620	1-163-038-00	CERAMIC CHIP	0. 1uF		25V
C621	1-124-779-00	ELECT CHIP	10uF	20%	16V

6-2. FRONT MICROCOMPUTER HD643383F (AV-26P/26U BOARD IC801) PORT FUNCTION DESCRIPTION

Pin No.	Signal	I/O	Function
1~3	PC0/AN8~ PC2/AN10	I	N. C.
4	PC3/AN11	I	LOW Batt. Detect IC input.
5	AVss	I	Connected to GND.
6	TEST	I	Connected to GND.
7	X2	O	NC. (Not used on sub clock)
8	X1	I	Connected to Vcc.
9	Vss	I	GND.
10	OSC1	I	SYSTEM CLOCK (8MHz)
11	OSC2	O	SYSTEM CLOCK (8MHz)
12	$\overline{RES}$	I	Reset IC input.
13	MDO	I	Connected to Vcc.
14	P20/$\overline{IRQ4}$/ $\overline{ADTRG}$	O	EDIT I/F CLOCK input.
15	P21/UD	O	POWER ON.
16	P22	O	N. C.
17	P23	O	EDIT RESET.
18	P24	O	N. C.
19	P25	O	GPI.
20	P26	O	CONTROLLER MICROCOMPUTER CS.
21	P27	I	Power SW~
22	P30/SCK1	O	CONTROLLER SCK.
23	P31/SI1	I	CONTROLLER SI.
24	P32/SO1	O	CONTROLLER SO.
25	P33/SCK2	I/O	EDIT/OSD/EVR SCK.
26	P34/SI2	I	EDIT/OSD/EVR SI.
27	P35/SO2	O	EDIT/OSD/EVR SO.
28	P36/STRB	O	IR CS~.
29	P37/$\overline{CS}$	O	FD CS~.
30	Vss	I	GND.
31~33	V3~V1	I	N. C.
34	Vcc	I	+5V POWER.
35	PA3/COM4	O	DA CS~.
36	PA2/COM3	O	SCL CS~.
37	PA1/COM2	O	OSD CS~.
38	PA0/COM1	O	EDIT CS~.
39	P50/$\overline{WKP0}$/ SEG1	O	MENU.
40	P51/$\overline{WKP1}$/ SEG2	O	INT/EXT.
41	P52/$\overline{WKP2}$/ SEG3	O	EE/RECOUT.
42	P53/$\overline{WKP3}$/ SEG4	O	CINEMA ON.
43	P54/$\overline{WKP4}$/ SEG5	O	MONOTONE ON.
44	P55/$\overline{WKP5}$/ SEG6	O	FADER W/B.
45	P56/$\overline{WKP6}$/ SEG7	O	MASK H SCROLL.
46	P57/$\overline{WKP7}$/ SEG8	O	MASK V SCROLL.
47~52	P60/SEG9~P65/ SEG14	O	FADER LEVEL bit0~bit5.
53, 54	P66/SEG15, P67/ SEG16	O	N. C.
55~60	P70/SEG17~ P75/SEG22	O	ROM/RAM ADDRESS0~ADDRESS5.
61, 62	P76/SEG23, P77/ SEG24	O	N. C.
63	P80/SEG25	O	RAM CS~.
64	P81/SEG26	O	ROM CS~.
65, 66	P82/SEG27, P83/ SEG28	O	N. C.
67	P84/SEG29	O	Middle Strobe.
68	P85/SEG30	O	High Strobe.
69	P86/SEG31	O	OE.
70	P87/SEG32	O	WE.
71~74	P90/SEG33~ P93/SEG36	I/O	ROM/RAM DATA 0~DATA 3.
75	P94/SEG37/M	I/O	ROM/RAM DATA 4.
76	P95/SEG38/DO	I/O	ROM/RAM DATA 5.
77	P96/SEG39/CL2	I/O	ROM/RAM DATA 6.
78	P97/SEG40/CL1	I/O	ROM/RAM DATA 7.
79	Vcc	I	+5V POWER.
80	P10/TMOW	O	TITLE FADER LEVEL bit 0.
81	P11/TMOFL	O	TITLE FADER LEVEL bit 1.
82	P12/TMOFH	O	TITLE FADER LEVEL bit 2.
83	P13/TMIG	O	TITLE FADER LEVEL bit 3.
84	P14/PWM	O	TITLE FADER LEVEL bit 4.
85	P15/$\overline{IRQ1}$/TMIB	I	TITLE FADER LEVEL bit 5.
86	P16/$\overline{IRQ2}$/TMIC	I	OSD Vd IRQ2.
87	P17/$\overline{IRQ3}$/TMIF	I	Vd IRQ3.
88	P40/SCK3	I/O	DTR EDIT I/F.
89	P41/RXD	I	RXD EDIT I/F.
90	P42/TXD	I/O	TXD EDIT I/F.
91	P43/$\overline{IRQ0}$	I	DSR EDIT I/F.
92	AVcc	I	Connected to Vcc.
93	PB0/AN0	I	FD BUSY~.
94	PB1/AN1	I	IR BUSY~.
95~100	PB2/AN2~ PB7/AN7	I	N. C.

6-3. EDIT MICROCOMPUTER HD643383F (AV-26P/26U BOARD IC802) PORT FUNCTION DESCRIPTION

Pin No.	Signal	I/O	Function
1~3	PC0/AN8~ PC2/AN10	I	N. C.
4	PC3/AN11	I	N. C.
5	AVss	I	Connected to GND.
6	TEST	I	Connected to GND.
7	X2	O	N. C. (Not used on sub clock)
8	X1	I	Connected to Vcc.
9	Vss	I	GND.
10	OSC1	I	SYSTEM CLOCK (8MHz)
11	OSC2	O	SYSTEM CLOCK (8MHz)
12	$\overline{RES}$	I	Reset IC input.
13	MDO	I	Connected to Vcc.
14	P20/$\overline{IRQ4}$/ ADTRG	O	N. C.
15	P21/UD	O	RESET OUT.
16	P22	O	EDIT I/F CLK.
17~21	P23~P27	O	N. C.
22	P30/SCK1	O	N. C.
23	P31/SI1	I	LANC R input.
24	P32/SO1	O	LANC R output.
25	P33/SCK2	I/O	At IR communication: Hi-Z/LANC C CLK.
26	P34/SI2	I	IR/LANC P output.
27	P35/SO2	O	IR/LANC P input.
28	P36/STRB	O	N. C.
29	P37/$\overline{CS}$	O	N. C.
30	Vss	I	GND.
31~33	V3~V1	I	N. C.
34	Vcc	I	+5V POWER.
35~38	PA3/COM4~ PA0/COM1	O	N. C.
39	P50/$\overline{WKP0}$/ SEG1	O	LANC A $\overline{CS}$.
40	P51/$\overline{WKP1}$/ SEG2	O	LANC B $\overline{CS}$.
41	P52/$\overline{WKP2}$/ SEG3	O	N. C.
42	P53/$\overline{WKP3}$/ SEG4	O	IR $\overline{CS}$.
43	P54/$\overline{WKP4}$/ SEG5	O	LANC SEL A0.
44	P55/$\overline{WKP5}$/ SEG6	O	LANC SEL A1.
45	P56/$\overline{WKP6}$/ SEG7	O	LANC SEL B0.
46	P57/$\overline{WKP7}$/ SEG8	O	LANC SEL B1.
47, 48	P60/SEG9, P61/ SEG10	O	SELECT OUT IS0, IS1.
49, 50	P62/SEG11, P63/ SEG12	O	SELECT OUT PS0.
51	P64/SEG13	O	SELECT OUT PS.
52~54	P65/SEG14~ P67/SEG16	O	N. C.
55~57	P70/SEG17, P72/ SEG19	O	LED OUT IN1~IN3.
58	P73/SEG20	O	LED OUT REC.
59~62	P74/SEG21~ P77/SEG24	O	N. C.
63	P80/SEG25	O	S/V SEL OUT MAIN.
64, 65	P81/SEG26, P82/ SEG27	O	S/V SEL OUT PRO1, PRO2.
66	P83/SEG28	O	S/V SEL OUT REC MON.
67~70	P84/SEG29~ P87/SEG32	O	N. C.
71~73	P90/SEG33~ P92/SEG35	I	S/V DET IN IN1~IN3.
74	P93/SEG36	I	S/V DET IN PRO IN.
75	P94/SEG37/M	I	S/V DET IN REC IN.
76	P95/SEG38/DO	I	N. C.
77	P96/SEG39/CL2	I	N. C.
78	P97/SEG40/CL1	I	N. C.
79	Vcc	I	+5V POWER.
80	P10/TMOW	O	N. C.
81	P11/TMOFL	O	N. C.
82	P12/TMOFH	O	N. C.
83	P13/TMIG	O	N. C.
84	P14/PWM	O	N. C.
85	P15/$\overline{IRQ1}$/ TMIB	I	LANC PB $\overline{REQ}$.
86	P16/$\overline{IRQ2}$/TMIC	I	LANC PA $\overline{REQ}$.
87	P17/$\overline{IRQ3}$/TMIF	O	N. C.
88	P40/SCK3	I/O	F/E communication CLK/Hi-Z (at Non communication).
89	P41/RXD	I	F/E communication input.
90	P42/TXD	I/O	F/E communication output/Hi-Z (at Non communication).
91	P43/$\overline{IRQ0}$	I	F/E communication $\overline{CS}$.
92	AVcc	I	Connected to Vcc.
93~95	PB0/AN0~ PB2/AN2	I	MONITOR KEY $\overline{IN1}$~$\overline{IN3}$.
96	PB3/AN3	I	MONITOR KEY $\overline{REC}$.
97	PB4/AN4	I	I/S.
98	PB5/AN5	I	PLG.
99, 100	PB6/AN6, PB7/ AN7	I	N. C..

6-4. LANC MICROCOMPUTER MB89131 (AV-26P/26U BOARD IC803, IC804), CONTROLLER MICROCOMPUTER MB89131 (CM-42 BOARD IC014), KEYBOARD MICROCOMPUTER MB89131 (KM-13 BOARD IC805) PORT FUNCTION DESCRIPTION

Note) This microcomputer operates in three modes for voltage setting of pin 18 and 20.

① LANC microcomputer in operation: pin 18 to be driven "L", pin 20 to be driven "L".

② Controller microcomputer in operation: pin 18 to be driven "L", pin 20 to shuttle input.

③ Keyboard microcomputer in operation: pin 18 to be driven "L", pin 20 to be driven "H".

Pin No.	Signal	LANC Microcomputer in Operates		Controller Microcomputer in Operates		Keyboard Microcomputer in Operates	
		I/O	Function	I/O	Function	I/O	Function
1	A Vcc	—	ADC Power.	—	ADC Power.	—	ADC Power.
2	$\overline{\text{RESET}}$	I	Reset input.	I	Reset input.	I	Reset input.
3, 4	MODE0, MODE1	I	Mode input, Fixed to "L".	I	Mode input, Fixed to "L".	I	Mode input, Fixed to "L".
5	X0	I	4MHz clock input.	I	4.19MHz ceramic vibrator.	I	4.19MHz ceramic vibrator.
6	X1	O	Not used.	O	4.19MHz ceramic vibrator.	O	4.19MHz ceramic vibrator.
7	Vcc	—	+5V Power.	—	+5V Power.	—	+5V Power.
8	X0A	I	Connected to GND.	I	32768Hz crystal oscillator.	I	Connected to GND.
9	X1A	O	Not used.	O	32768Hz crystal oscillator.	O	Not used.
10—17	P27—P20	O	Not used.	O	Key matrix select.	O	Key matrix select.
18	P17	I	Function select, Fixed to "L".	I	Function select, Fixed to "H".	I	Function select, Fixed to "L".
19	Vss	—	GND.	—	GND.	—	GND.
20	P16	I	P16 Function select, Fixed to "L".	I	Shuttle input.	I	P16 function select, Fixed to "H".
21—24	P15—P12	O	Not used.	I	Shuttle input.	O	P15—P12 key matrix select.
25	P11	O	Not used.	O	LED latch.	O	Key matrix select.
26	P10	O	Not used.	O	LED serial SCK.	O	Key matrix select.
27	P07	O	Not used.	O	LED serial SO.	I	Key matrix read.
28	P06	O	Not used.	O	Not used.	I	Key matrix read.
29, 30	P05, P04	O	Not used.	I	Key matrix read.	I	Key matrix read.
31, 32	P03, P02	O	Not used.	I	Key matrix read.	I	Key matrix read.
33	P01	O	REQ.	I	Key matrix read.	I	Key matrix read.
34	P00	O	LANC communication output.	I	Key matrix read.	I	Key matrix read.
35	P37/BZ	O	Not used.	O	Buzzer.	O	"L" for data through.
36	P36/INT2	I	LANC communication input.	I	Not used.	O	Not used.
37	P35/INT1	I	CS.	I	CS.	I	CS.
38	P34/INT0	I	Not used.	I	JOG_B.	O	Not used.
39	P33/EC/SC0	I	Not used.	I	IOG_A.	O	Not used.
40	P32/SI	I	SI.	I	SI.	I	SI.
41	P31/SO	O	SO.	O	SO.	O	SO.
42	P30/SCK	I	SCK.	I	SCK.	I	SCK.
43	A Vss	—	GND.	—	GND.	—	GND.
44	AVR	—	GND.	—	ADC Power.	—	ADC Power.
45	AN3/P43	O	Not used.	I	Video fader	O	Not used.
46	AN2/P42	O	Not used.	I	Audio fader	O	Not used.
47	AN1/P41	O	Not used.	I	Audio mixing	O	Not used.
48	AN0/P40	O	Not used.	I	Mic volume	O	Not used.

1-1-4. Input/Output Levels and Impedance

Input jacks

Video 5 lines (PLAYER INPUT 1/2/3/RECORDER IN/PROCESSOR IN)
S-VIDEO IN : 4-pin mini DIN (5)
Luminance 1 Vp-p, 75 ohms, unbalanced, sync negative
Chrominance 286mVp-p, 75 ohms, unbalanced
VIDEO IN : phono jack (5)
1 Vp-p, 75 ohms, unbalanced, sync negative

Audio 6 lines (PLAYER INPUT 1/2/3/AUX AUDIO INPUT RECORDER IN/PROCESSOR IN)
Phono jack
−7.5 dBs, impedance 47k ohms or more

Microphone Minijack (front 1)
−60 dBs, 3k ohms or more

Output jacks

Video 4 lines (RECORDER OUT/MONITOR OUT/ PROCESSOR OUT1/2)
S-VIDEO OUT : 4-pin mini DIN (4)
Luninance 1 Vp-p, 75 ohms, unbalanced, sync negative
VIDEO OUT : Phono jack (4)
1 Vp-p, 75 ohms, unbalanced, sync negative

Audio 4 lines (RECORDER OUT/MONITOR OUT/ PROCESSOR OUT1/2)
Phono jack, −7.5 dBs, impedance 470 ohms or less

LANC Stereo mini-minijack (rear 3, front 1)

CTRL S Minijack (1)

GPI Minijack (1)

EDIT I/F 8-pin mini DIN (1)

IR REPEATER
Stereo mini-minijack (1)

Headphones
Stereo mini-minijack (1)
12 mW (47 ohms), appropriate impedance
8 ohms or more

1-2. POWER SUPPLY CHECK

1-2-1. Output Voltage Check (PW-106P/106U Board)

Mode	E-E
Measurement instrument	Digital voltmeter
+13V check	
Measurement point	CN105 pin ① or ②
Specified value	13.0±0.5V
+6V check	
Measurement point	CN105 pin ⑥ or ⑦
Specified value	6.0±0.5V

[Check Method]

1) Each of these supply voltages must meet its specified value.

1-3. VIDEO SYSTEM ADJUSTMENTS

Color video signal supplied from a pattern generator is used as a video input signal for Video System Alignment. This signal should be checked to ensure that it meets the specifications provided is Fig. 7-1-2 and "INPUT SIGNAL CHECK". The adjustments in Video System Alignment should be performed in the following sequence.

[Adjustment sequence]

1. Y Level Adjustment
2. Chroma Level Adjustment
3. White Fade Level Adjustment

1-3-1. Y Level Adjustment (AV-26P/26U Board)

[Adjustment Object]

Set the Y level of video signal. If deviated, the picture image becomes brighter or darker. Extreme deviation causes distorted image.

Mode	E-E
Signal	Color bar
Measurement point	Recorder output video terminal
Measuring instrument	Oscilloscope
Adjustment element	RV451
Specified value	1.00±0.05Vp-p

[Adjustment Method]

1) Input color bar signal to PLAYER INPUT 1.
2) Select PLAYER 1.
3) Adjust RV451 so that the level difference between sync chip and white peak is 1.00±0.05Vp-p.

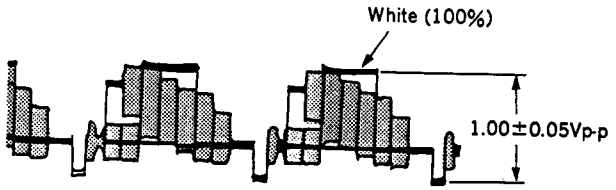


Fig. 7-1-3. (A) (NTSC: US, Canadian Model)

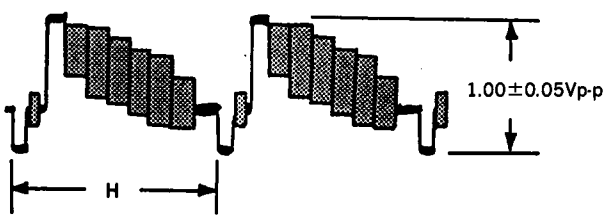


Fig. 7-1-3. (B) (PAL: AEP, UK Model)

1-3-2. Chroma Level Adjustment (AV-26U board) (NTSC: US, Canadian Model only)

[Adjustment Object]

Set the chroma level of video signal. If deviated, the picture color becomes darker or thinner.

Mode	E-E
Signal	Color bar
Measurement point	Recorder output video terminal
Measuring instrument	Oscilloscope
Adjustment element	RV471
Specified value	286±10mVp-p

[Adjustment Method]

1) Input color bar signal to PLAYER INPUT 1.
2) Select PLAYER 1.
3) Adjust RV471 so that the burst level is 286±10mVp-p.

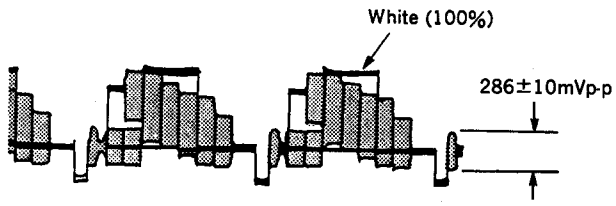


Fig. 7-1-4.

1-3-3. White Fade Level Adjustment (AV-26P/26U Board)

[Adjustment Object]

Set the brightness of the picture image in white fader mode. If deviated, the white fader is excessively bright or dark.

Mode	E-E
Signal	Color bar
Measurement point	Recorder output video terminal
Measuring instrument	Oscilloscope
Adjustment element	RV501
Specified value	0.63±0.02Vp-p

[Adjustment Method]

1) Input color bar signal to PLAYER INPUT 1.
2) Select PLAYER 1.
3) Select picture fader [WHITE]. Place the fader lever in the bottom.
4) Adjust RV501 so that the level difference between pedestal level and white level is 0.63±0.02Vp-p.

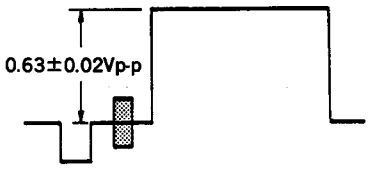


Fig. 7-1-5.

1-4. DISPLAY SYSTEM ADJUSTMENTS

Color vdieo signal supplied from a pattern generator is used as a video input signal for Video System Alignment. This signal should be checked to ensure that it meets the specifications provided in Fig. 7-1-2 and "INPUT SIGNAL CHECK". The adjustments in Video System Alignment should be perfomed in the following sequence.

[Adjustment sequence]

1) OSD Hue Adjustment
2) Internal Sub-Carrier Frequency Check
3) OSD AFC Voltage Check

1-4-1. OSD Hue Adjustment (AV-26P/26U Board)

[Adjustment Object]

Set the hue when the menu is displayed on the screen. If deviated, the hue is not appropriate.

Mode	E-E
Signal	Color bar
Measurement point	Monitor output video terminal
Measuring instrument	Vector scope
Adjustment element	RV701
Specified value	Adjust so that the two bright points of cyan on the scope are aligned with each other.

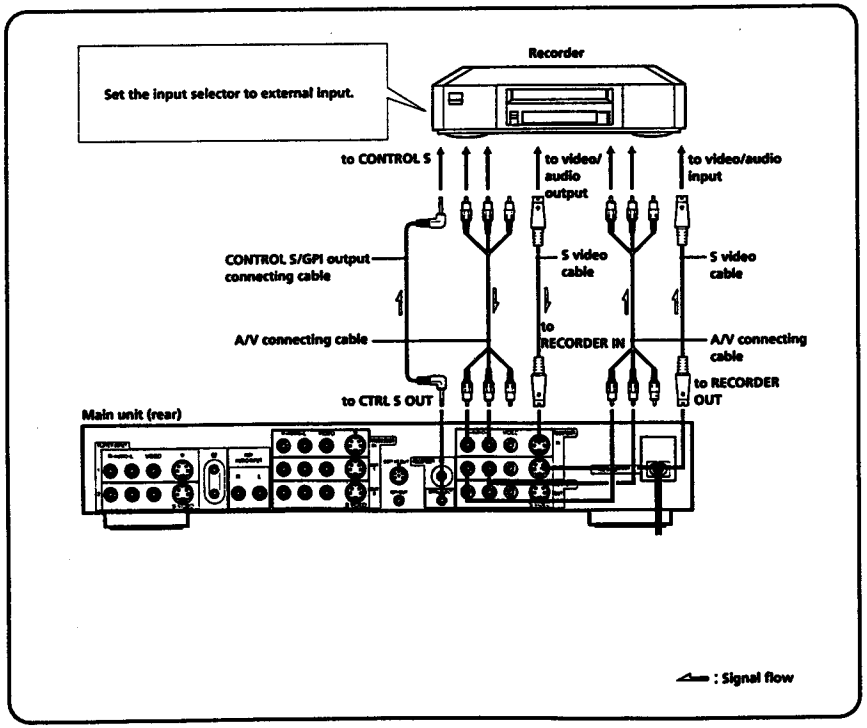
[Adjustment Method]

1) Input color bar signal to PLAYER INPUT 1.
2) Select PLAYER 1.
3) Press [MENU] key to display the menu on the screen.
4) Connect a vector scope to MONITOR OUT.
   Use RV701 to adjust the angle between blue and cyan of the menu screen.

Connection 2

Connect as illustrated below when the recorder is a Sony and has the CONTROL S connector only. After connecting, set the recorder control system (p.16)

When the recorder has no S video jack, connect to the VIDEO jack.

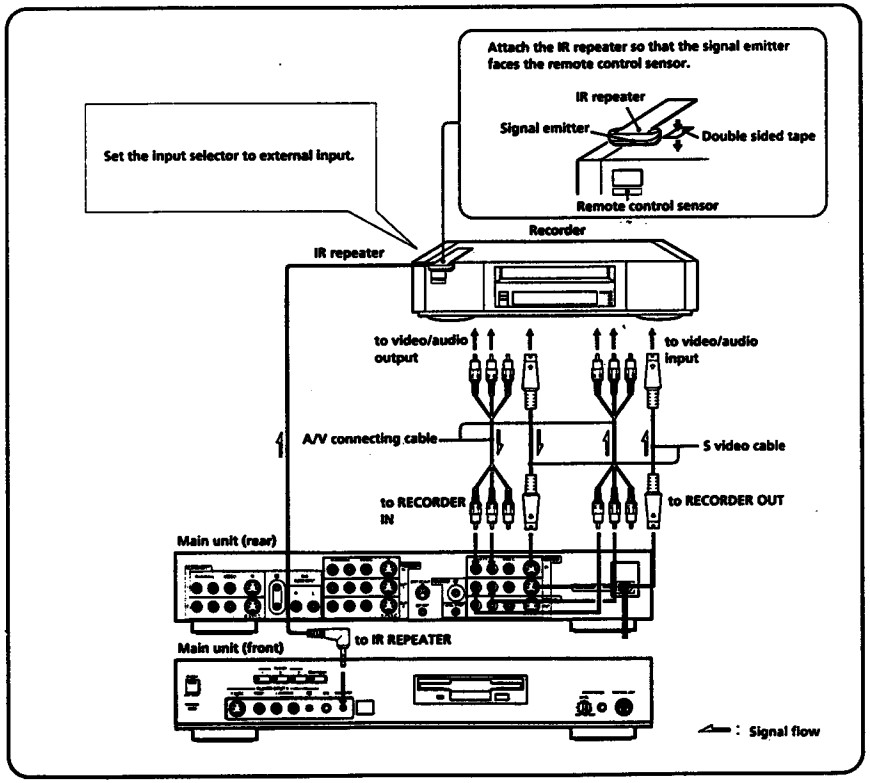


Connection 3

Connect as illustrated below when the recorder can be controlled with an infrared remote commander only.

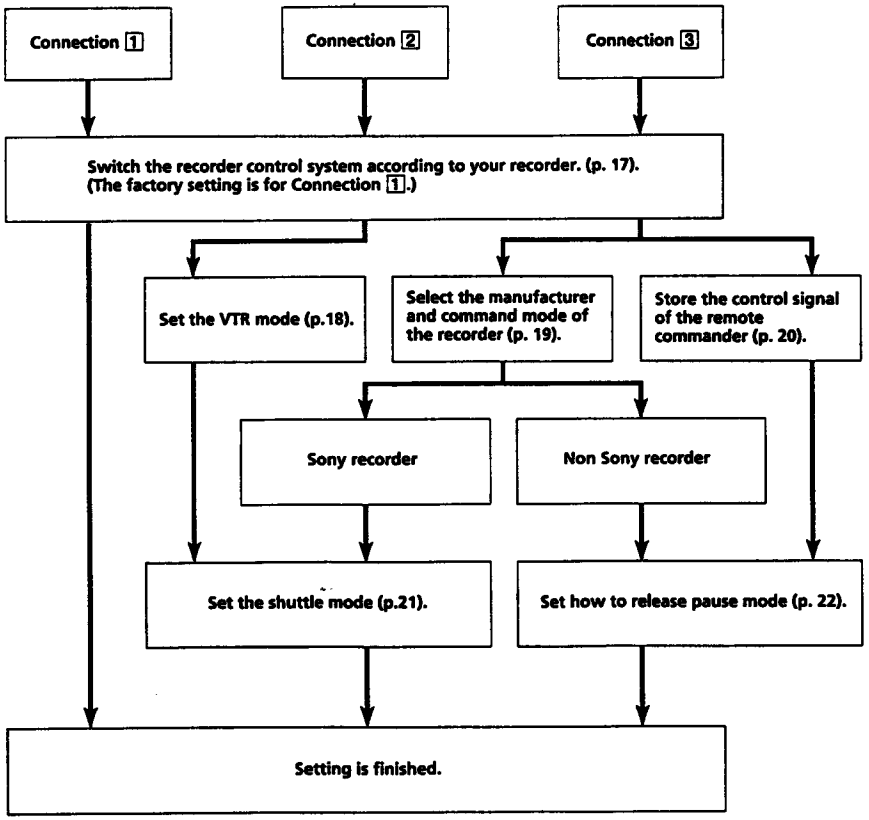
The IR repeater connected to the main unit transmits the infrared signal to the recorder and players. Attach the IR repeater close to the remote sensor of the recorder.
After connecting, set the recorder control system (p.16).

When the recorder has no S video jack, connect to the VIDEO jack.



Setting the Recorder Control System

According to the connection of the recorder, set the recorder control system so that you can control the recorder using the control unit.



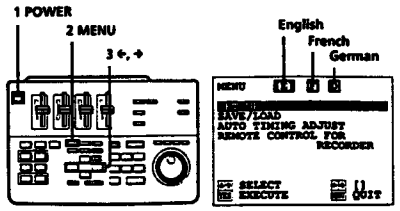
Switching the Menu Language

You can choose the English menu, the German menu or the French menu. The factory setting is English.

1 **Press the POWER switch of the control unit (or main unit) to turn the power on.**

2 **Press MENU to display the main menu.**

3 **Press ←, → to switch the language.**



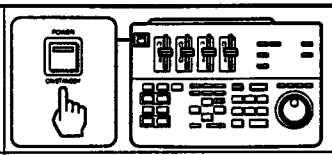
Selecting the Recorder Control System

Select the recorder control system according to the connection. The factory setting is LANC ℄. This setting is not necessary for Connection 1.

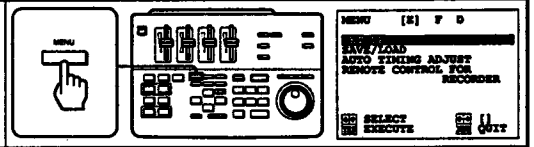
Preparations

Turn on the TV or monitor, and set the input selector to external input.

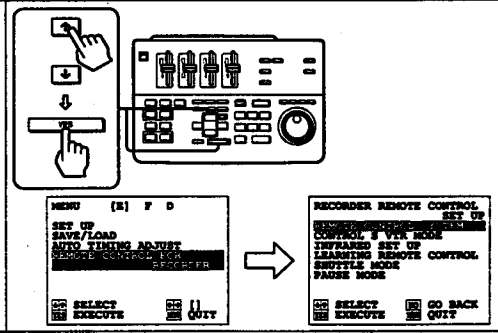
1 **Press the POWER switch of the control unit (or main unit) to turn the power on.**
The demonstration will be repeated.



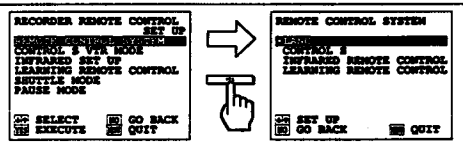
2 **Press MENU.**
The main menu appears.



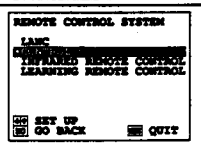
3 **Press ↑, ↓ to select the item for registering the recorder control system and press YES.**
The menu of the selected item appears.



4 **Press ↑, ↓ to select the item for selecting the recorder control system, and press YES.**
The menu of the selected item appears.



5 **Move the ● mark to the appropriate item by pressing ↑, ↓.**
Connection 1 → LANC
Connection 2 → CONTROL S
Connection 3 and you select the manufacturer → INFRARED REMOTE CONTROL
Connection 3 and you store the control signal → LEARNING REMOTE CONTROL



6 **Press MENU.**
The menu disappears.

Setting the VTR Mode

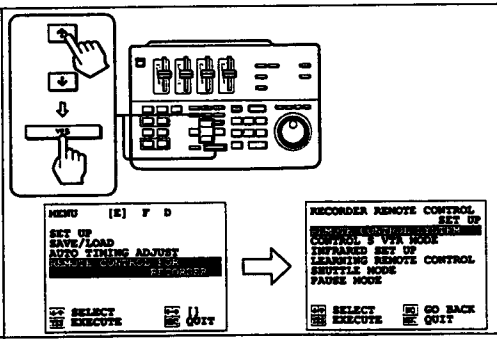
When you have connected the recorder using Connection [2], you must set the VTR mode. The factory setting is the VTR 2 (8 mm).

On the VTR mode

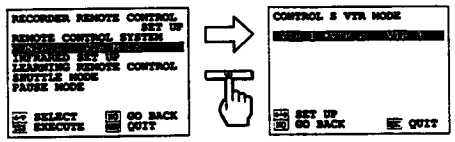
Type of remote control signal. To avoid mis-operation by remote control signal among Sony video equipment, there are three different command modes, VTR 1, VTR 2, and VTR 3. Other manufacturers also have their own command modes.

1 **Press MENU.**
The main menu appears.

2 **Press ↑, ↓ to select the item for registering the remote control system of the recorder, and press YES.**
The menu of the selected item appears.



3 **Press ↑, ↓ to select the item for setting the command mode of the CONTROL S connector, and press YES.**
The menu of the selected item appears.



4 **Move the ● mark to the appropriate command mode by pressing ←, →.**

5 **Press MEMU.**
The menu disappears.

Setting the Manufacturer and Command Mode of the Recorder

When you have connected the recorder using Connection [3], you must set the manufacturer and command mode of the recorder. This unit has the command modes of other manufacturers preset. Select the appropriate command mode in the menu system. If you cannot find the command mode for your recorder, store the control signal as described on page 20.
The factory setting is Sony VTR 2.

Preset manufacturers (command mode)

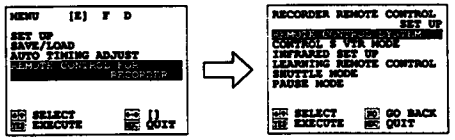
- SONY (VTR 1)
- SONY (VTR 2)
- SONY (VTR 3)
- PANASONIC (1)
- PANASONIC (2)
- PANASONIC (OLD SYSTEM1)
- PANASONIC (OLD SYSTEM 2)
- JVC (1)
- JVC (2)
- JVC (OLD SYSTEM)
- MITSUBISHI (1)
- MITSUBISHI (2)
- MITSUBISHI (OLD SYSTEM)
- HITACHI (1)
- HITACHI (2)
- TOSHIBA (1)
- TOSHIBA (2)
- SHARP (1)
- SHARP (2)
- SHARP (OLD SYSTEM)
- SANYO (1)
- SANYO (2)
- NEC (1)
- NEC (2)

Notes

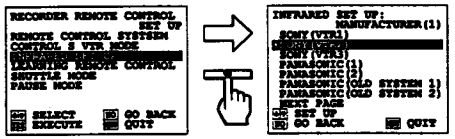
- You cannot use the jog-shuttle dial with a remote controller other than Sony's.
- Some buttons may not operate with some manufacturers recorders.

1 **Press MENU.**
The main menu appears.

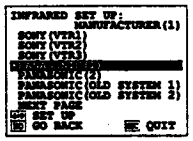
2 **Press ↑, ↓ to select the item for registering the recorder control system, and press YES.**
The menu of the selected item appears.



3 **Press ↑, ↓ to select the item for selecting the command mode of the recorder, and press YES.**
The command mode list appears.



4 **Move the ● mark to the command mode of the recorder by pressing ↑, ↓.**
If you are not sure which is the correct one, select one of them and try operating the recorder.



5 **Press MENU.**
The menu disappears.

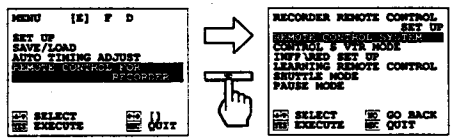
After the setting, confirm that the recorder operates correctly.

Storing the Function of the Remote Commander

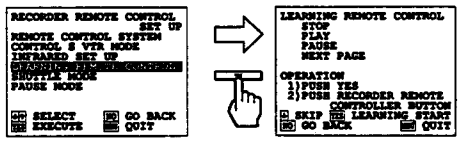
If you cannot find the command mode of the recorder on the preset command mode list (p.19), store the control signal in this unit so that you can control the recorder using the control unit. However, in this case you cannot use the jog-shuttle dial.

1 **Press MENU.**
The main menu appears.

2 **Press ↑, ↓ to select the item for registering the remote control system of the recorder, and press YES.**
The menu of the selected item appears.

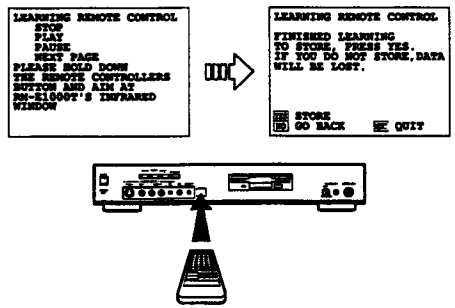


3 **Press ↑, ↓ to select the item for storing the control signal that is not preset, and press YES.**
The menu of the selected item appears.



4 **As indicated on the screen, press the button of the recorder's remote commander.**
Continue the operation until the "FINISHED" message appears.
Aim the remote commander at the remote sensor of the main unit. Place the remote commander horizontally, 3 to 5 cm (1 3/16 to 2 inches) away from the remote sensor.

When the "FINISHED" message appears, press YES.
The control signal is stored.



5 **Press MENU.**
The menu disappears.

Notes on storing the control signal

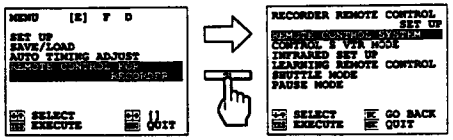
- Do not move the main unit or remote commander.
- If you are instructed to press a button that is not on the remote commander, press the ↓ button and go to the next step. Or, press any other button. (The function of the button will be stored.)
- You cannot operate the player and recorder using the control unit while storing the control signal.
- If you turn off the power of the main unit or control unit, the contents stored until then are erased. Make sure that you do not turn off the power until the "FINISHED" message appears.
- This unit cannot store the control signal of an ultrasonic remote commander or special remote commander.
- This unit may not be able to store every key function of some manufacturers.

Setting the Shuttle Mode

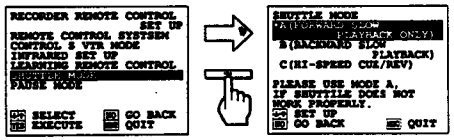
When you have connected the recorder using Connection [2], or Connection [3] and you use a Sony remote commander, you must set the shuttle mode according to the recorder.
The factory setting is A mode (for a recorder that cannot do slow playback in reverse).
When you have connected the recorder using Connection [1], this unit learns the shuttle mode of the recorder automatically.

1 **Press MENU.**
The main menu appears.

2 **Press ↑, ↓ to select the item for registering the remote control system of the recorder, and press YES.**
The menu of the selected item appears.



3 **Press ↑, ↓ to select the item for seting the shuttle mode, and press YES.**
The menu to select the shuttle mode appears.



4 **Move the ● mark to the appropriate shuttle mode by pressing ↑, ↓.**
A (FORWARD SLOW PLAYBACK ONLY):
When an infrared remote commander is not supplied with the recorder, nor sold separately.

B (BACKWARD SLOW PLAYBACK):
When an infrared remote commander is supplied with the recorder, or sold separately.

C (HI-SPEED CUE/REV):
Besides the conditions of the B mode, the recorder can do fast-forward/reverse playback at high speed.

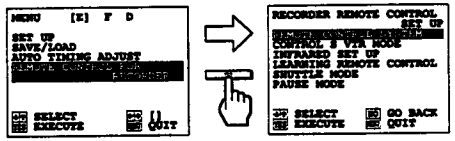
5 **Press MENU.**
The menu disappears.

Setting the Pause Mode Release Button

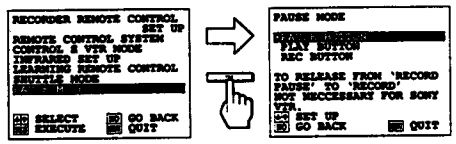
When you have connected the recorder using Connection [2] and [3], you must set which button to release recording pause mode on the recorder. The factory setting is the pause button.

1 **Press MENU.**
The main menu appears.

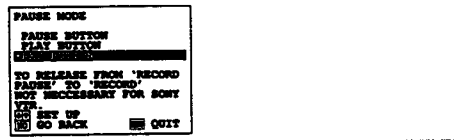
2 **Press ↑, ↓ to select the item for registering the recorder control system, and press YES.**
The menu of the selected item appears.



3 **Press ↑, ↓ to select the item for setting the pause mode release button, and press YES.**
The menu of the selected item appears.



4 **Move the ● mark to the appropriate item by pressing ↑, ↓.**



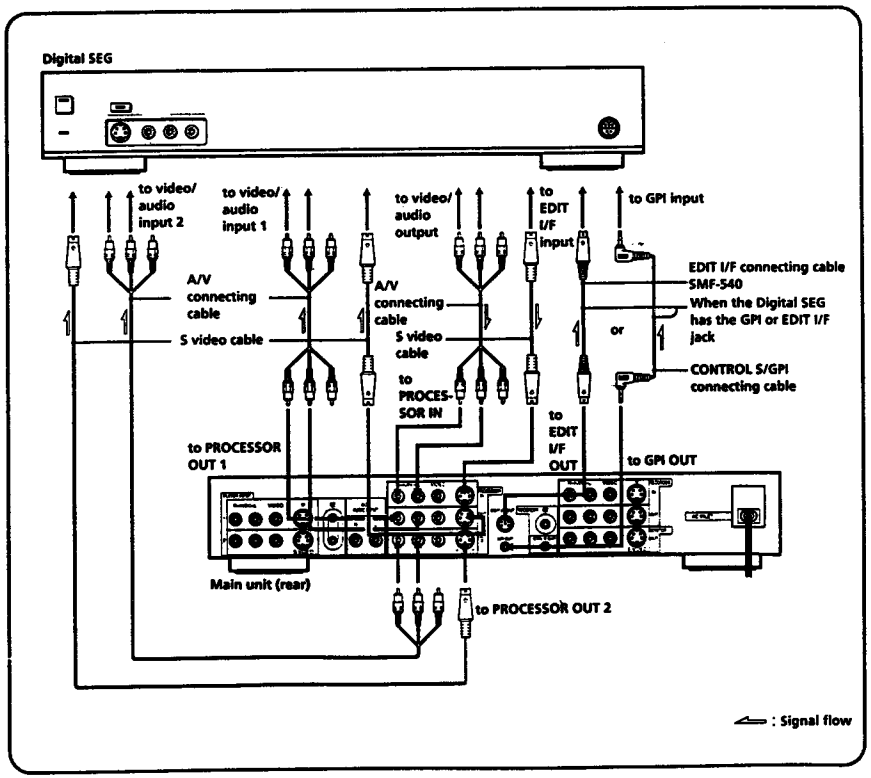
5 **Press MENU.**
The menu disappears.

Connecting Other Equipment

You can connect a digital SEG, audio equipment and microphone to the main unit.

Connecting the Digital SEG

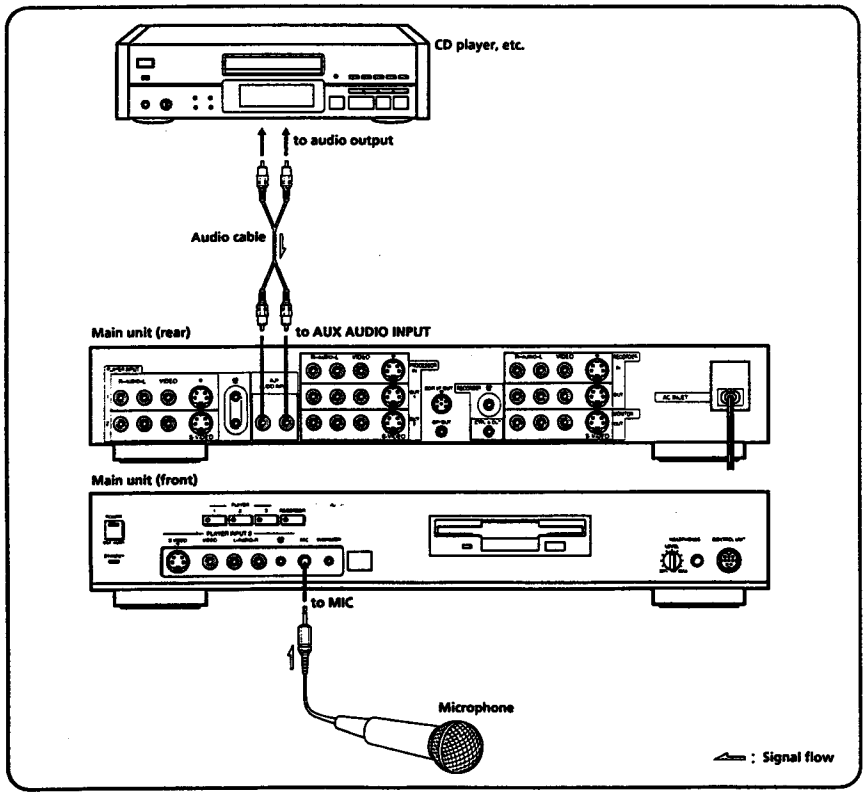
Connect a Digital SEG to the PROCESSOR IN/OUT jacks of the main unit. If the Digital SEG has a GPI jack or EDIT I/F jack, you can transmit the GPI signal or EDIT I/F signal from this unit to the Digital SEG and mix images or generate effects (p. 58).



- When the Digital SEG has no S video jack, connect to the VIDEO jack.
- You can connect the player directly to the digital SEG.

Connecting the Audio Equipment and Microphone

Connect the audio equipment to the AUX AUDIO INPUT jacks of the main unit. Connect the microphone to the MIC jack on the front of the main unit.You can mix the audio signal of the picture and that of the audio equipment (p.44). Also, you can insert narration.



Note

You cannot use a microphone that is exclusive "plug-in-power" type.

Program Editing

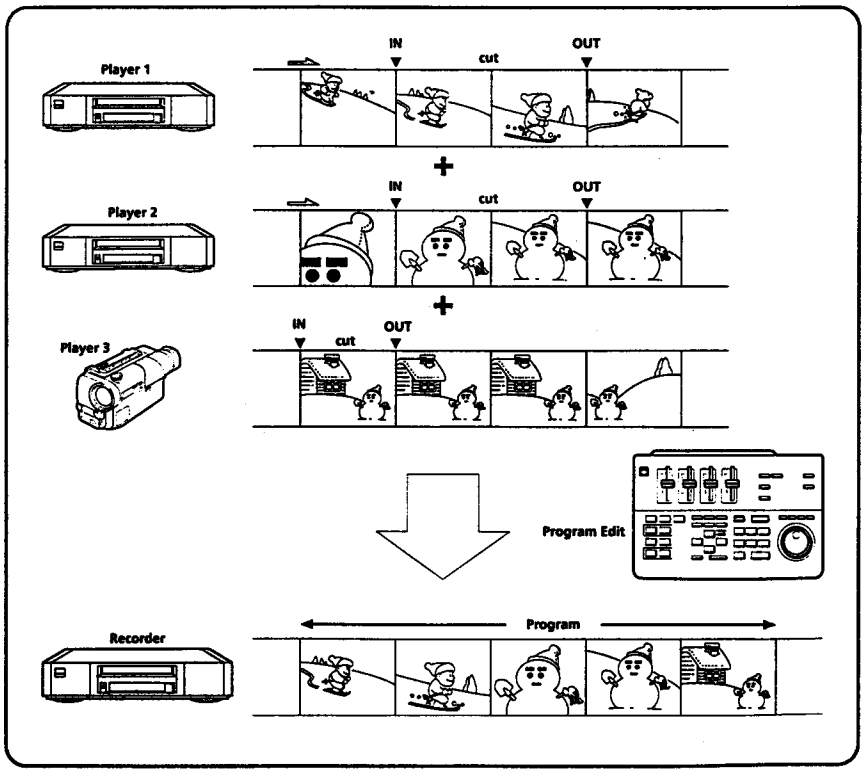
Editing means to make a new tape from a prerecorded tape by deleting unnecessary scenes and allocating the scenes you want in the desired order.

Words Used in Editing

Cut	The each scene to be allocated for editing
IN point	The start point of a cut
OUT point	The end point of a cut
Program	A group of cut of desired length and allocation

Program editing
: The automatic editing function of this unit performed by pressing the EDIT START button after making the program.

Time code (RC time code)
: This is the function to record the frame-by-frame position of the tape as a serial number of hour, minute, second, frame. As the picture and counter reading are identical, you can locate a scene precisely by the counter.



Procedure of the Program Editing

1 **Turn the power on (p. 27).**

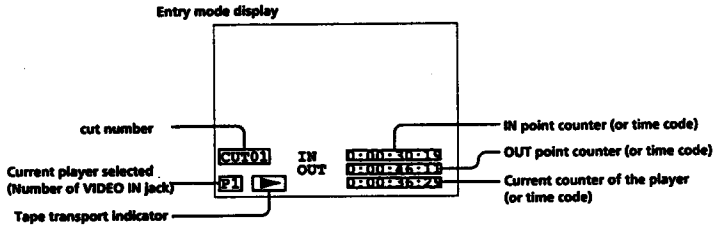
2 **Set the IN points and OUT points of the cuts (p. 28).**

3 **Preview the program (p. 31).**

4 **Execute the program editing (p. 32).**

On-screen display while designating the cuts

The entry mode display appears.



On the entry mode display:
Pressing ↑, ↓ changes the cut numbers.
Pressing ←, → changes the display position.

How may cuts can be designated for a program?

If you edit using the RC time code*, you can designate up to 99 cuts in a program. If you do not use the RC time code, when you designate more than 20 cuts per player, the editing accuracy will deteriorate. When you edit more than 20 cuts, do the following.

- Before you designate the cuts, rewind the tape to the beginning and reset the counter to zero.
- Execute the program editing so that the number of cuts does not exceed 20 per player.
- Before executing each program editing mentioned above, rewind the tape to the beginning and reset the counter to zero.

* Rewritable Consumer time code

Notes on time code

- The RC time code is not compatible with the time code of products for institutional use.
- When editing using the RC time code, the RC time code must be recorded from the beginning to the end of the tape in series to edit correctly. If the RC time code is not recorded in series, the program editing may stop on the way. In such a case, record the RC time code from the beginning to the end of the tape again. (The previous time code or data code will be erased.)

To adjust the lag between the program and edited tape caused by the start time of the recorder or recording pause mode, see "Adjusting the Timing – To Edit Scenes Precisely" on page 45.

Preparations for the Program Editing

Before you start the editing operation, get the player and recorder ready. Refer to the operating instructions of the player and recorder.

Preparations **Player**

- Insert the tape you want to edit.
- If the player has an input/output selector for the video/audio jack, set it to "output".
- If the player has an edit switch, set it to "on". Picture deterioration will be minimized.
- If the player has an infrared remote commander, set it so that the player is not operated by the remote commander.
- If you use the RC time code, set the counter mode to time code.
- If the player has a LANC M/S switch or that in menu, set to "S".

Preparations **Recorder**

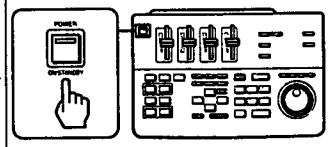
- Insert a tape that can be recorded. (Check the position of the safety tab to prevent recording.)
- Set the input selector to external input.
- Set the recording time, volume and so on. (Refer to the operating instructions of the recorder.)
- In case of LANC control and if the recorder has a LANC M/S switch or that in menu, set to "S".

With some recorders, the beginning and end of the recorded picture may become hard to see. To avoid such cases, we recommend inserting video-muted cuts (p. 41) at the beginning and end of a program.

Procedure 1 Turning the Power On

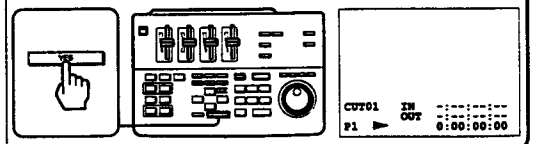
1 **Press the POWER switch of the control unit (or the main unit).**
The lamp of POWER switch lights.
The unit repeats the demonstration.

You can make the demonstration not appear (p. 52).



2 **Press YES.**
The entry mode display appears.

You can turn on or off the entry mode display by pressing DISPLAY ON/OFF.

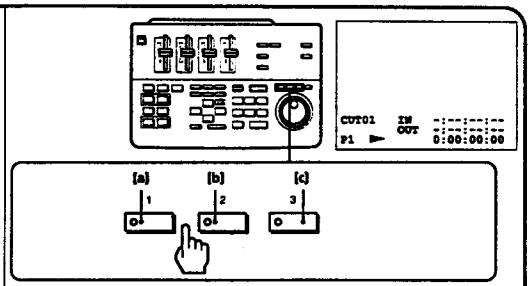


Procedure 2 Setting the IN and OUT Points

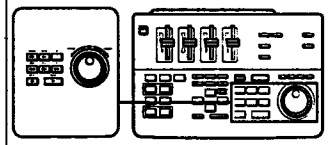
You can edit by connecting up to 3 players. To designate cuts, first select the player of the desired tape and then designate the cuts.

1 **Select the tape of the desired scene by pressing PLAYER (1, 2, 3).**
The selected PLAYER button lights up.

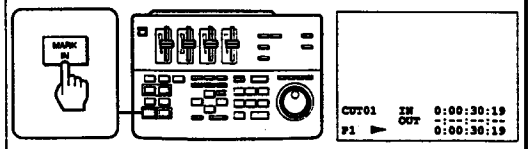
[a] Player 1 (connected to PLAYER INPUT 1)
[b] Player 2 (connected to PLAYER INPUT 2)
[c] Player 3 (connected to PLAYER INPUT 3)



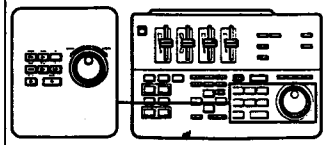
2 **Locate the IN point of the cut using the tape transport buttons and jog/shuttle dial, and set the player to playback pause mode.**
More than about 15 seconds of counter reading (about 15 counts for the 4-digit counter) is necessary from the beginning of the tape to the IN point.



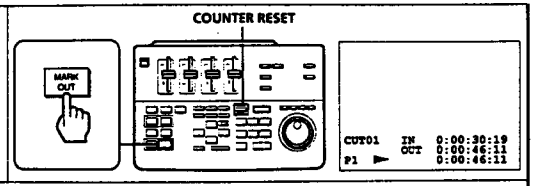
3 **Press MARK IN.**
The IN point of the cut is set.



4 **Locate the OUT point using the tape transport buttons and jog/shuttle dial, and set the player to playback pause mode.**
More than about 3 seconds of counter reading (about 3 counts for the 4-digit counter) is necessary from the OUT point to the end of the tape.



5 **Press MARK OUT.**
The OUT point of the cut is set.



6 **Repeat steps 1 to 5 to set other cuts.**
Cuts are stored in the program when they are set.

Make sure that you reset the tape counter to 0:00:00 (0000 for the 4-digit counter) at the beginning of tape.

Press COUNTER RESET.
If you use the RC time code, however, the COUNTER RESET button does not function.

The counter reading you can designate for cuts ranges from -8:59:59 to +8:59:59.

You cannot designate the counter readings out of this range.

Make a cut longer than 2 seconds (2 counts).

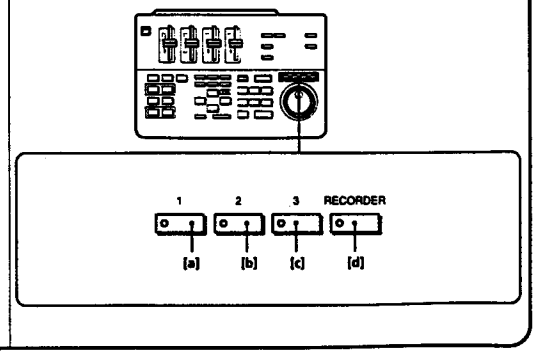
The unit cannot execute editing a cut shorter than 1 second (1 count). If the cut is displayed in white in the edit list, the unit will not edit the cut. If the cut is displayed in red, this unit will edit the cut. However, as the cut is not long enough, the cut may be recorded incorrectly. A cut longer than 2 seconds (2 count) is displayed in blue.

Operating the Jog/Shuttle Dial

You can use the tape transport buttons or jog/shuttle dial to transport the tape of the player that you have selected with the PLAYER or RECORDER buttons.

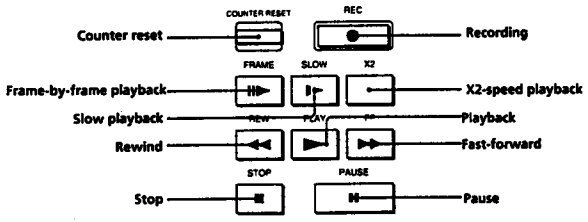
Select the desired player or recorder by pressing PLAYER 1, 2, 3, or RECORDER.
The button of selected equipment lights. When you select the recorder, the button of player that was selected before the recorder flashes. The signal (audio and video) of the flashing player is output from the RECORDER OUT jack of the main unit.

[a] Player 1 (connected to PLAYER INPUT 1)
[b] Player 2 (connected to PLAYER INPUT 2)
[c] Player 3 (connected to PLAYER INPUT 3)
[d] Recorder



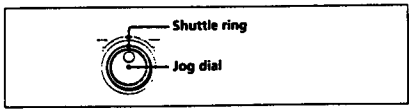
Continued to the next page

Tape transport buttons



On the jog/shuttle dial

The jog/shuttle dial functions differently depending upon the recorder. If you control a recorder other than LANC, set the shuttle mode (p. 21).



- The jog/shuttle dial may be slow to operate at the beginning as it learns the operations of player and recorder.
- You cannot use the jog/shuttle dial with non-Sony products.

The jog/shuttle dial functions as follows when used in infrared remote control mode.

Shuttle mode	Shuttle ring	Jog dial
A (FORWARD SLOW PLAYBACK ONLY)	Playback pause Reverse playback (Review) Playback Fast-forward playback (Cue)	You cannot use the jog dial.
B (BACKWARD SLOW PLAYBACK)	Playback pause 1/5-speed reverse playback Reverse playback X2-speed reverse playback Reverse playback (Review) 1/5-speed playback Playback X2-speed playback Fast-forward playback (Cue)	To reverse — To forward
C (HI-SPEED CUE/REV)	Playback pause 1/5-speed reverse playback Reverse playback X2-speed reverse playback Reverse playback (Review) High speed reverse playback 1/5-speed playback Playback X2-speed playback Fast-forward playback (Cue) High speed fast-forward playback	To reverse — To forward

When you cannot set the recorder to playback pause mode with the jog/shuttle dial, use the II button.

Notes

The jog/shuttle dial may operate incorrectly in the following cases.

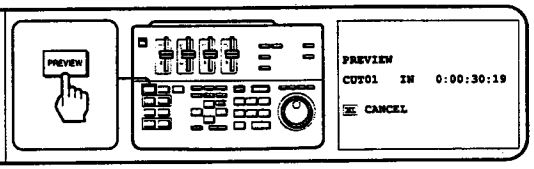
- You turned the jog/shuttle dial too quickly.
- The recorder is connected using Connection 2 or 3 (p. 14, 15).
- The player or recorder is slow to react to signals from the remote control unit.
- You do not need to keep pressing the button of the recorder's remote commander to do the picture search (Fixed picture search function).
- You turned the shuttle ring immediately after turning on the power. In this case, transport the tape using tape transport buttons once. The jog/shuttle dial will operate normally afterward.

Procedure 3 Previewing the Program

After you have designated the cuts, preview the program to check that the cuts are the correct ones.

Previewing the Program

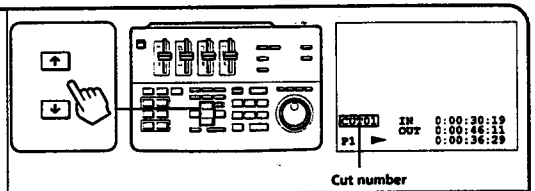
Press PREVIEW.
The program is played back.
To stop the playback, press CANCEL.



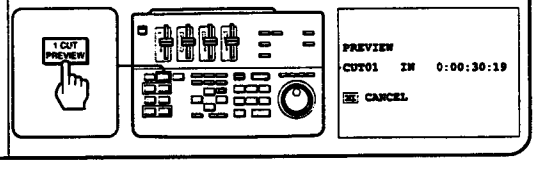
To check the total time, see page 37.

Previewing One cut

1 **Press ↑, ↓ on the entry mode display until the desired cut number appears.**
The current scene of the player containing the cut appears on the screen.



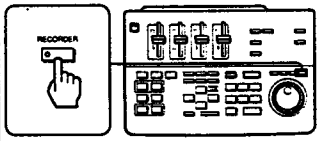
2 **Press 1 CUT PREVIEW.**



Procedre 4 Executing the Program Editing

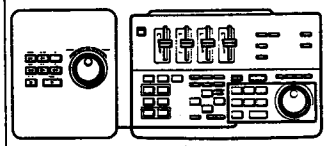
This unit automatically edits and records the cuts you have designated for the program.

1 **Press RECORDER.**
The RECORDER button lights.
No on-screen display concerning the recorder appears.

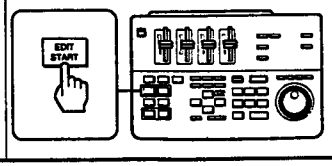


(Playback picture only)

2 **Locate the recording starting point using the tape transport buttons and jog/shuttle dial, and set the recorder to playback pause mode.**
(In case of the infrared remote control and control S, set to recording pause mode.)



3 **Press EDIT START.**
The EDIT START button lights, and the unit starts program editing automatically.



When Program Editing is Finished

The player enters playback pause mode and the recorder enters recording pause mode.
You can select stop mode for the recorder (p. 52).

To Stop Program Editing

Press CANCEL. The player and recorder stop.

To Save the Programs

You can save the program data in a Sony 3.5-inch floppy disk (2HD and 2DD) (p. 56).

When You Finished Editing

Press POWER again.
The lamp of POWER button goes off. The STANDBY lamp of the main unit lights.

If You Will Not Use the Unit for Long Time

Unplug the power cord. The STANDBY lamp goes off.

To minimize the lag between the program and the edited tape

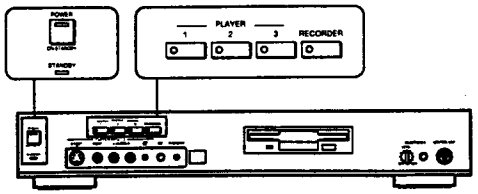
It is inevitable that a lag occurs between the program and the edited tape. There are three causes. One of them is that the IN and OUT points are designated by the counter reading. There is lag between the counter reading and the actual frame. Against two other causes, we recommend the following method to minimize the lag.

Cause	Countermeasures
There is a lag at the start time or at the recording pause of the recorder.	Perform the timing adjustment (p. 45).
The IN and OUT points are set by the counter reading, and there is a lag between the playback picture and the counter reading of the player.*	Locate the IN and OUT points in fast-forward playback or reverse playback, without using the stop button. Use the fast-forward playback or reverse playback for executing program edit as well (p. 52).

* This lag does not occur when you edit using the RC time code on a player and recorder that are compatible with the RC time code.

When You are Not Editing

Even if you do not use the unit for editing, you can keep the player and recorder connected to the main unit and use this unit as the input signal selector.



1 **Disconnect the control unit.**

2 **Press the POWER switch to turn the power on.**

3 **Select the input signal by pressing PLAYER (1/2/3)/RECORDER.**

When you select RECORDER

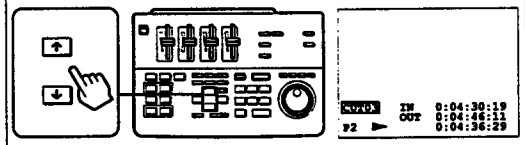
The signal (audio and video) of the player of lighting button (PLAYER 1/2/3) is output from the RECORDER OUT jack.
The signal of the recorder (RECORDER) is output from the MONITOR OUT jack.

Revising the Program

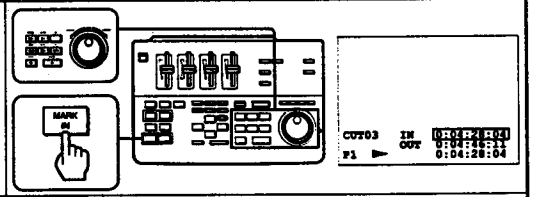
You can change the IN and OUT points of the designated cuts or change the order of cuts. In addition, you can copy or delete cuts.

Changing the IN and OUT Points

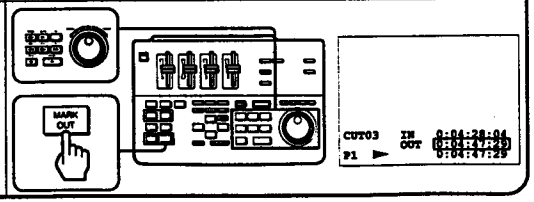
1 **Press ↑, ↓ on the entry mode display until the cut number you want to change appears.**
The current scene of the player containing the cut appears on the screen.



2 **Locate the new IN point using the tape transport buttons and jog/shuttle dial, and press MARK IN.**
The counter reading of IN point is revised.



3 **Locate the new OUT point using the tape transport buttons and jog/shuttle dial, and press MARK OUT.**
The counter reading of OUT point is revised.



You can change the IN and OUT points on the cut data display.

Select the cut you want to revise on the cut data display and locate the new IN and OUT points, or directly input the counter reading (p. 35).

Note

If the cut you selected is in a different player from the player currently selected, the IN and OUT points are shown as white in black. In this situation, you cannot change the IN and OUT points. Select the player of the cut you want to revise.

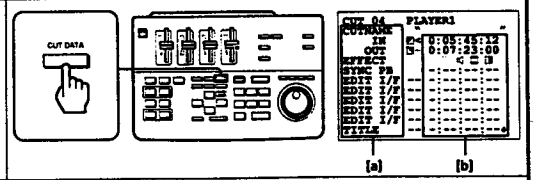
Adjusting the IN and OUT points

You can change the counter reading of the IN and OUT points on the cut data display to adjust by a few frames. In this case, the playback picture does not appear.

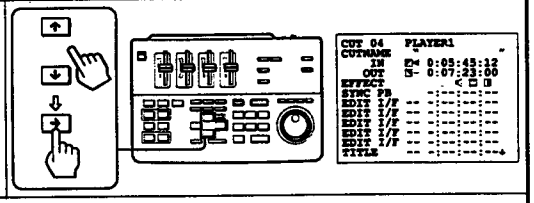
1 **Press ↑, ↓ on the entry mode display until the cut number you want to revise appears (example: cut no. 4).**
The current scene of the player containing the cut appears on the screen.

2 **Press CUT DATA.**
The playback picture disappears and the cut data display appears.

[a] Items to be able to set on the cut
[b] Counter readings



3 **Press ↑, ↓ to select the item (IN or OUT) you want to change, and press → until its counter reading flashes.**



4 **Change the counter reading by pressing ↑, ↓.**
Pressing ↑, ↓ changes the frame digits. The second and minute digits will increase or descrease accordingly.
If the counter does not display frame digits, pressing ↑, ↓ changes the second digits.
In case of a 4-digit counter, the last digit changes.

5 **To reset other items, press ← and repeat steps 3 and 4.**

6 **Press CUT DATA.**
The entry mode display appears again.

On the cut data display

Pressing ↑, ↓ moves the cursor to an item.
Pressing → makes the counter of the selected item flash so that you can write figures.
Pressing ← stops the counter flashing, and you can select an item.

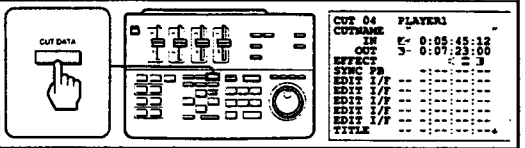
When the cursor is at a cut number:
Pressing ↑ displays the cut data of the previous cut.
Pressing ↓ displays the cut data of the next cut.

Naming the cut

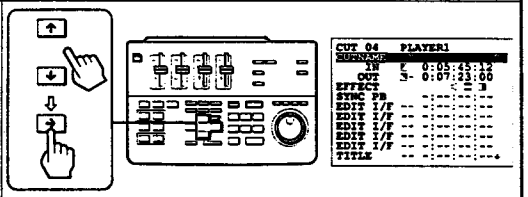
You can name each cut using up to 12 letters, numbers, and symbols.

1 **Press ↑, ↓ on the entry mode display until the cut number you want to name appears (example: cut no. 4).**
The current scene of the player containing the cut appears on the screen.

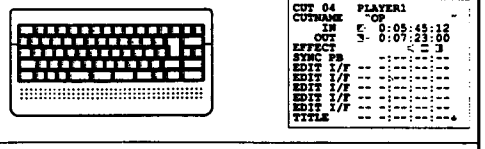
2 **Press CUT DATA.**
The playback picture disappears and the cut data display appears.



3 **Press ↑, ↓ to select "CUT NAME" and press →.**
The cursor moves to the position of first character to be written.



4 **Type in the characters using the keyboard.**
See page 54 for details.
Some of the characters cannot be used for cut name.



5 **When you finish, press CUT DATA.**
The entry mode display appears again.

You can write characters using the control unit.

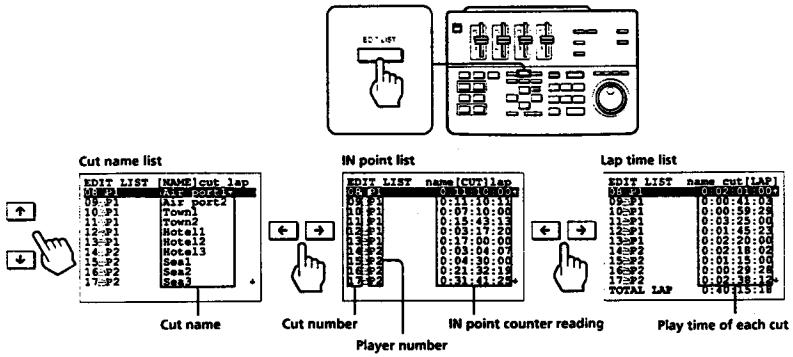
In step 4, press ↑, ↓ until the desired character appears.
Then press → to go to next character position. You can write characters by repeating this operation.
To insert a space, press →.
Pressing YES switches to the upper case, lower case, and symbol/figure in turn.

Moving/Copying/Deleting the Cut

You can move, copy and delete the cuts on the edit list.

Using the Edit List

Press EDIT LIST on the entry mode display.
The counter reading list of IN points appears.



On the edit list

Pressing ↑, ↓ moves the cursor up and down so that you can select a cut.
Pressing ←, → switches the cut list.

After you have selected a cut:
To locate the IN point scene, press GO TO.
To enter the entry mode, press EDIT LIST.
To display the cut data, press CUT DATA.

To return to the entry mode display, press EDIT LIST.

Checking the Total Time of the Program

The total time of selected cuts is displayed at the bottom of the lap time list (TOTAL LAP).

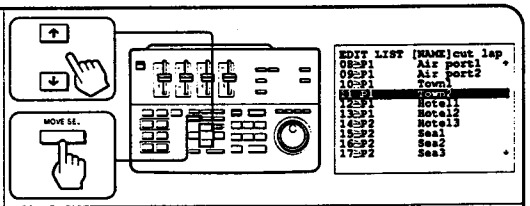
To Exclude a Cut While Program Editing is Executed

Select the cut and press NO to turn off the ☑ mark.

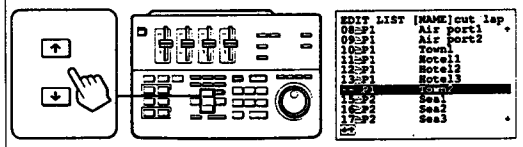
To include the cut, press YES to turn on the ☑ mark.

Moving the Cut

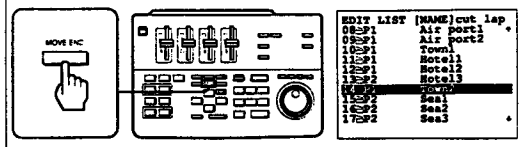
1 **Press ↑, ↓ on the edit list to select the cut you want to move, and press MOVE SEL.**



2 **Press ↑, ↓ to move the cut to the desired position.**



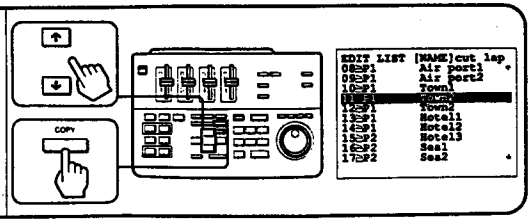
3 **Press MOVE END.**
The cut is placed at the position set in step 2.



Copying the Cut

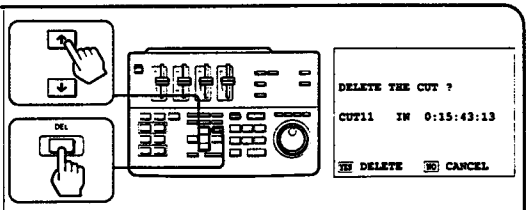
Press ↑, ↓ on the edit list to select the cut you want to copy, and press COPY.
The copy of the cut is placed just after the original cut.

To insert the same cut at another position, first copy the cut and then move the copy of the cut to the desired position.



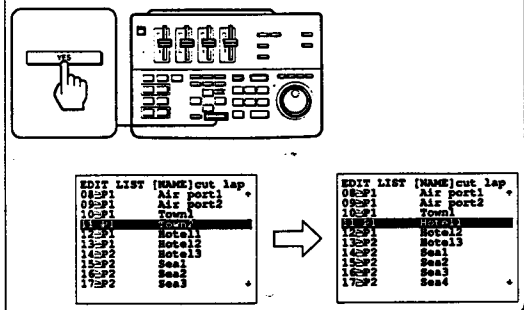
Deleting the Cut

1 **Press ↑, ↓ on the edit list to select the cut you want to delete, and press DEL.**
The message to confirm that the cut should be deleted appears.



2 **Press YES.**
The cut is deleted.

If you want to cancel deleting the cut, press NO in step 2.



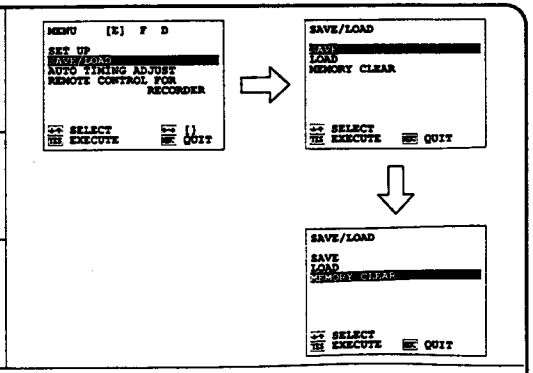
Clearing the Program Data from the Unit

The unit keeps the newest one of the program data in memory. You can clear the program data from the unit to restart making program from the beginning.

1 **Press MENU.**
The main menu appears.
To change the menu language, see page 16.

2 **Press ↑, ↓ to select the item to save or load a program, and press YES.**

3 **Press ↓ to select the item to clear the data, and press YES.**
The message to confirm that the data should be cleared appears.



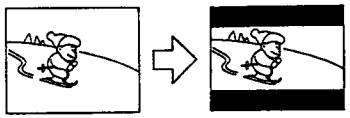
4 **Press YES.**
If you want to cancel clearing the data, press NO.

Generating the Special Effects

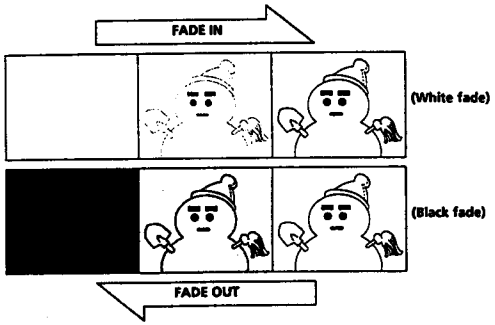
You can make your edited tape more impressive by generating special effects in the video and audio.

Monotone ..... Black and white picture (p. 41)

Cinema..... Cuts off the top and bottom of the picture so that the picture looks wide just like a film (p.41).

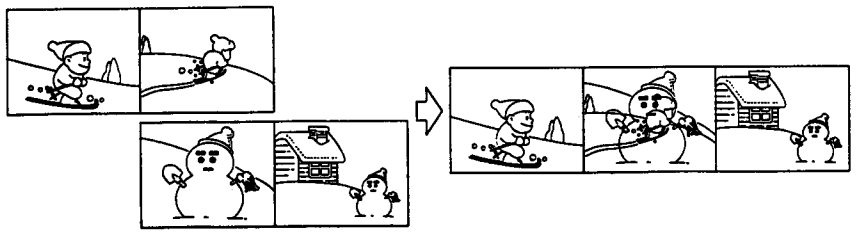


Fade ..... Makes the video and/or audio appear or disappear gradually (p. 41, 43).



Mute ..... Turns off the video and/or audio (p. 41).

Synchronized playback
..... Using the Digital SEG (not supplied), plays back the end of cut and the beginning of next cut overlapped (p. 42, 58).



Mixing ..... Mixes in external audio during editing (p. 44).

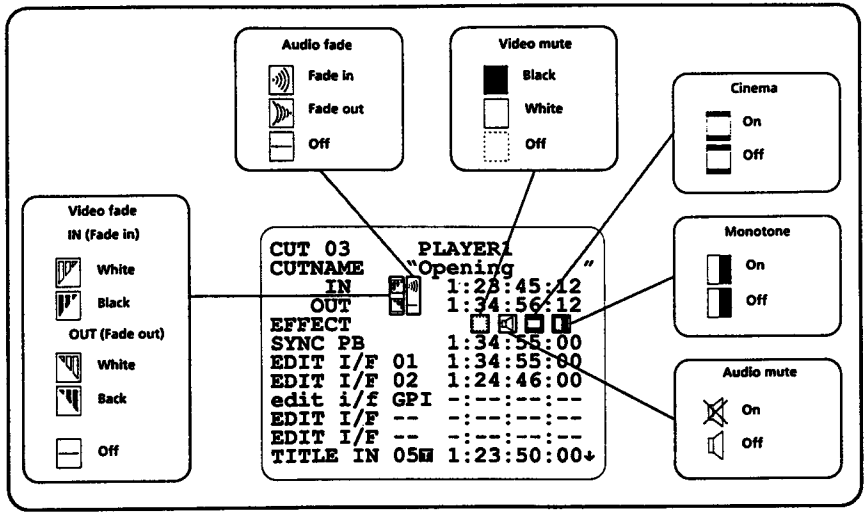
Monotone, Cinema, Fade, Mute, Synchronized Playback

Set the special effect on the cut data display. You can change the setting afterwards.

Cut Data

You can check or change the contents of the cut on the cut data display.

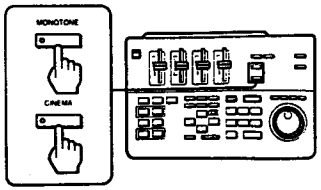
To locate the IN point, OUT point, SYNC PB point, EDIT I/F point, or GPI point from the cut data display, press GO TO after selecting each point on the cut data.



Continued to the next page

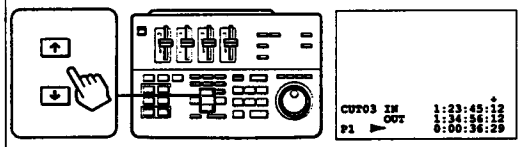
To check the monotone and cinema effects

Before you generate the effects, make a test to see how the picture will look with the effects.
Press the button of desired effect.
Monotone effect..... Press MONOTONE.
Cinema effect ..... Press CINEMA.
The picture takes on the effect.
You can generate both effects for one cut.
After you have checked, press the button to turn off the effect.

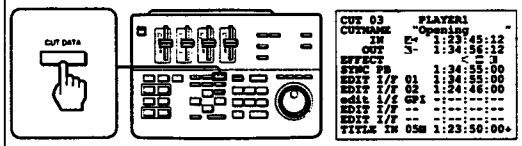


Setting the Effects

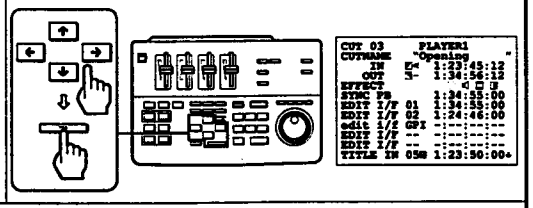
1 **Press ↑, ↓ until the cut number you want appears.**
The current scene of the player containing the cut appears on the screen.



2 **Press CUT DATA.**
The cut data display appears.



3 **Select the desired effect by pressing ↑, ↓, ←, →.**
To move the cursor up and down and change the setting ..... ↑, ↓
To move the cursor left or right and change the setting ..... ←, →



4 **Press ↑, ↓ until the desired effect mark appears.**

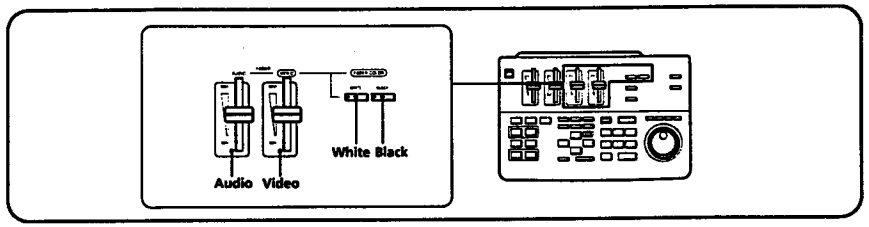
Note on the Synchronized Playback

You can enjoy the A/B roll edit using the Digital SEG (not supplied). The Digital SEG equipment mixes the images by overlapping them.
To make the A/B roll edit, connect the Digital SEG to the PROCESSOR IN/OUT jacks and press PROCESSOR ON/OFF to turn on. See page 58 for details.

Fading In/Out Manually

You cannot adjust the fading speed when you set fading on the cut data display. When you want to fade in or out matching the speed to the cut, edit (record) the cut manually and move the FADER lever.

Note
Make sure that the FADER lever is positioned at MAX when you do not want the effect.



Fading In

1 **For video fade, press WHITE or BLACK.**
The selected FADER COLOR button lights.
White fade ..... WHITE
Black fade ..... BLACK

2 **Recorder: Locate the point to start recording and set to recording pause mode.**

3 **Player: Start playback from a few seconds before the IN point.**

4 **Position the FADER lever to MIN.**
Video ..... VIDEO FADER lever
Audio ..... AUDIO FADER lever

5 **Recorder: Start recording.**

6 **Move the FADER lever towards MAX as fast as you want.**
The video/audio appears by fading in.

Fading Out

1 **Position the FADER lever at MAX.**
Video ..... VIDEO FADER lever
Audio ..... AUDIO FADER lever

2 **For video fade, press WHITE or BLACK.**
The selected FADER COLOR button lights.
White fade ..... WHITE
Black fade ..... BLACK

3 **While recording, move the FADER lever towards MIN as fast as you want.**

4 **Stop recording and playback.**

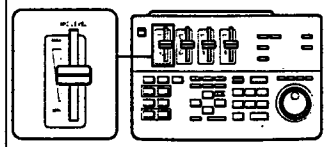
Audio Mixing

While performing the program editing, you can insert narration or mix in sound from connected audio equipment.

Mixing from Microphone

Use a microphone connected to the MIC jack on the front of the main unit to insert narration.

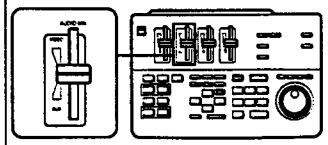
Adjust the microphone volume with the MIC LEVEL lever.
To turn up volume ..... MAX side
To turn down volume ..... MIN side



Mixing in the Sound of Audio Equipment

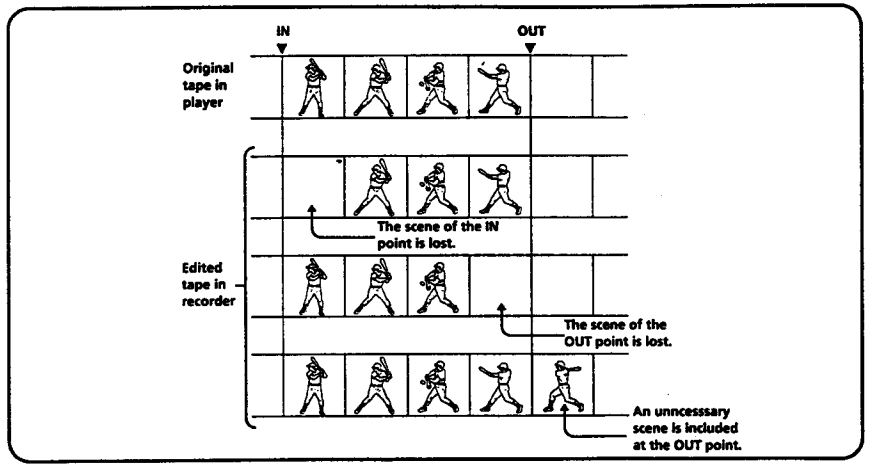
You can mix in the sound of audio equipment such as a CD player connected to the AUDIO INPUT jacks on the rear of the main unit.

Adjust the balance of the picture sound and the audio source with the AUDIO MIX lever.
To turn up volume of picture sound
..... VIDEO side
To turn up volume of audio source
..... AUX side



Adjusting the Timing — To Edit Scenes Precisely

When you play back the tape that you edited using the program editing, the IN point and/or the OUT point may not be the scene you had designated. Some scenes may not appear, or some unnecessary scenes may be included. There are several possible causes for such discrepancies: some recorders are late to start recording, or some recorders rewind the tape at the end of recording. Timing adjustment is the operation to compensate for the lag caused by the above characteristics of the recorder so that the cuts are more accurately recorded from the IN point to the OUT point as you designated.



Why the beginning of a cut is lost

For the program editing operations, this unit transmits a control signal to the player to play back from about 15 seconds before the IN point and to the recorder to release the recording pause mode at the IN point. Some recorders, however, require several seconds before starting recording after the recording pause mode is released. This is why the beginning of the cut is lost.

Why the end of a cut is lost, or an unnecessary scene is included at the end of a cut

For the program editing operations, this unit transmits a control signal to the player to play back until about 2 seconds after the OUT point and to the recorder to enter the recording pause or stop mode at the OUT point. Some recorders, however, require several seconds before entering recording pause or stop mode after recording. Or, when starting the next recording, some recorders rewind the tape a little and then enter recording pause or stop mode. This is why the end of the cut is lost, or an unnecessary scene is included at the end of the cut.
Once the timing adjustment has been done, this unit will automatically compensate for the characteristics of the recorder to ensure that the IN and OUT points are recorded accurately. This unit can compensate for the lag:
IN point
NTSC system – up to 5 seconds by 1/30 second (1 frame*)
PAL system – up to 5 seconds by 1/25 second (1 frame*)

OUT point
NTSC system – from –1 second to +4 seconds by 1/30 second
PAL system – from –1 second to +4 seconds by 1/25 second

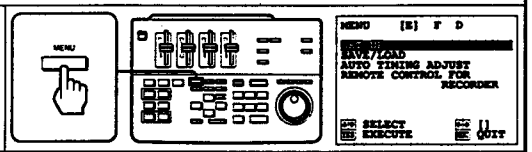
* Frame
One frame equals one image. The number of frames displayed in one second differs depending upon the TV system.
NTSC system – about 30 frames per second
PAL system – about 25 frames per second

Adjusting the Recorder's Timing

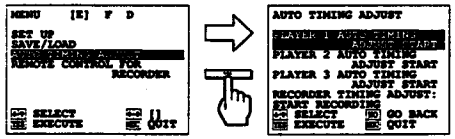
Procedure 1 Measure the Lag.

1 **Insert a blank tape in the recorder.**

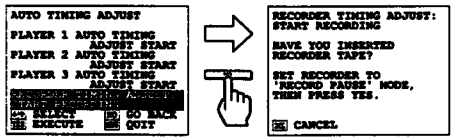
2 **Press MENU.**
The main menu appears.
To change the menu language, see page 16.



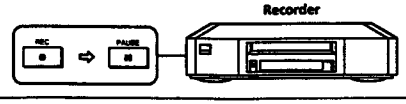
3 **Press ↑, ↓ to select the item for measuring the timing automatically, and press YES.**
The menu of the selected item appears.



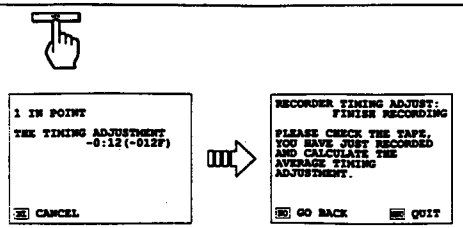
4 **Press ↑, ↓ to select the item for making a tape to measure the recorder's timing, and press YES.**
See page 49 to adjust player's timing.



5 **Set the recorder to recording pause mode.**



6 **Press YES.**
The timing adjustment data for 5 cuts are recorded.

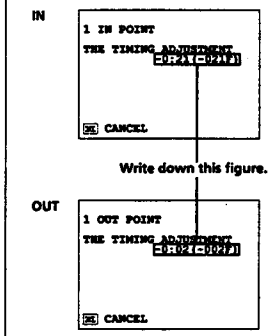


7 **Press MENU.**
The menu disappears.
The next procedure is to input the adjustment value in this unit to compensate for the lag (next page).

Procedure 2 Compensate for the Lag.

Preparations Have a pen or something to write with.

1 **Press RECORDER, play back the recorded tape by frame-by-frame playback and write down the adjustment value of the IN point (the frame where the recording actually starts) and that of the OUT point (the frame where the recording actually stops).**

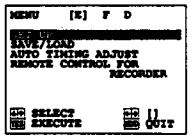


(Example)
IN 1 −0 : 21 (−021F)
IN 2 −0 : 22 (−022F)
IN 3 −0 : 23 (−023F)
IN 4 −0 : 20 (−020F)
IN 5 −0 : 24 (−024F)

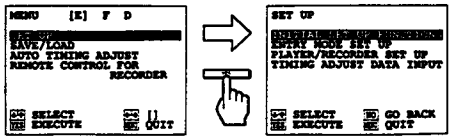
(Example)
OUT 1 −0 : 02 (−002F)
OUT 2 −0 : 06 (−006F)
OUT 3 −0 : 02 (−002F)
OUT 4 −0 : 04 (−004F)
OUT 5 −0 : 06 (−006F)

2 **Obtain the average of the adjustment values.**
Example IN: −0:22 (−022F)
OUT: −0:04 (−004F)

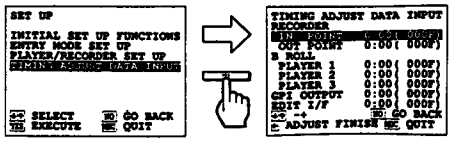
3 **Press MENU.**
The main menu appears.



4 **Press ↑, ↓ until the item for setting or adjusting the options appears, and press YES.**
The menu of the selected item appears.



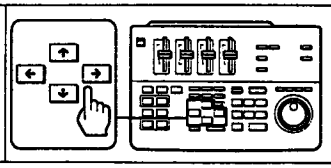
5 **Press ↑, ↓ to select the item for adjusting the timing manually, and press YES.**
The menu of the selected item appears.

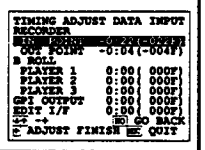


Continued to the next page

6 **To compensate for the lag at the IN point, select "IN POINT" and press →.**
To compensate for the lag at the OUT point, select "OUT POINT" and press →.

7 **Press ↑, ↓ until the adjustment value obtained in step 2 appears.**
Input the value for the IN and OUT points.





8 **When you have finished, press MENU.**
The timing adjustment is completed and the menu disappears.

If there is lag even after you have performed the timing adjustment, adjust it again manually.
Even if you have performed the timing adjustment using the automatic measurement, there may be some frames of lag. If the lags are uniform when you confirm the editing result, adjust the lag manually (p. 50).
The manual adjustment, however, may not be effective when:
- the lags are not uniform.
- you are recording in LP mode.
- you are editing with other than the RC time code.
- you use a 4-digit counter during A/B roll editing.

Notes

On the recorder
- With some recorders, the lag at the IN point of the first cut of the program is different from that of other cuts.
- With some recorders, the lag at the OUT point of the last cut of the program is different from that of other cuts.
- Perform the timing adjustment again when:
  —you change the recording mode (SP/LP).
  —you change the control connection of the recorder and this unit.

On the player
- Accurate compensation by frame is only possible with video equipment having the RC time code recording function. Use the video equipment on the RC time code, not the HMS counter.
- Accurate compensation is not possible with video equipment lacking the RC time code recording function.

On the recorder and player
Accurate compensation is not possible with video equipment that produces noise in the picture during the playback pause mode, or does not have the frame-by-frame playback function.

Adjusting the Player's Timing

When you execute the A/B roll edit or synchronized playback, the images may overlap at a different point from the SYNC PB point you set. The reason for this is that the player which starts playback later (B roll player) starts playback later than the SYNC PB point. To compensate for the lag, perform the timing adjustment for the player. As the lag may differ depending upon individual player, perform the timing adjustment for each player.

Two ways of timing adjustment are available.

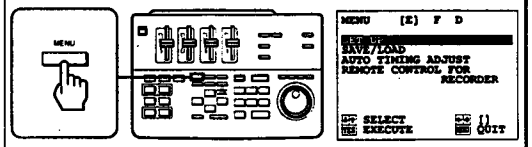
Automatic measurement
This unit measures the tape in the player for the lag, then inputs the adjustment value automatically.

Manual adjustment
You can revise the adjustment value obtained in the automatic measurement, or input the adjustment value directly.

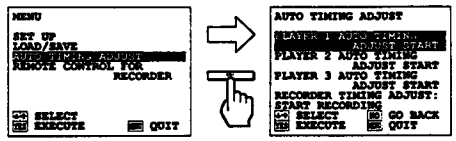
Automatic Measurement

1 **Insert a recorded tape in the player and rewind the tape.**

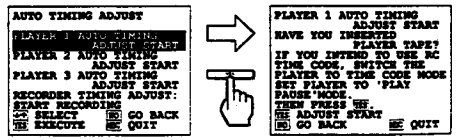
2 **Press MENU.**
The main menu appears.



3 **Press ↑, ↓ to select the item for measuring the timing automatically, and press YES.**
The menu of the selected item appears.



4 **Press ↑, ↓ to select the player you want to measure, and press YES.**
The automatic measurement display of the selected player appears.



5 **Press YES.**
After this unit measures the lag, it inputs the adjustment value automatically.

6 **After the operation finishes, press MENU.**
The menu disappears.

You can revise the adjustment value (next page).

Adjusting the Timing — To Edit Scenes Precisely

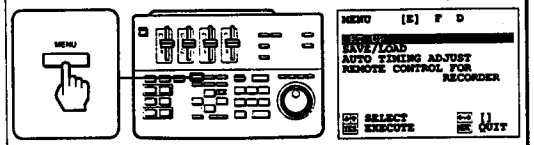
Manual Adjustment

You can revise the adjustment value obtained in the automatic measurement. When you find some lag in the GPI output and EDIT I/F output timing, make the adjustment described below. In this case, measure the lag by yourself.

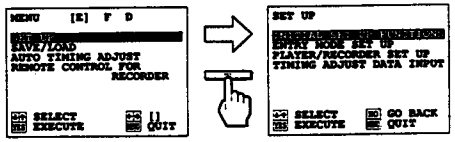
The manual adjustment, however, may not be effective when:

- the lags are not uniform.
- you are recording in LP mode.
- you are editing with other than the RC time code.
- you use a 4-digit counter during A/B roll editing.

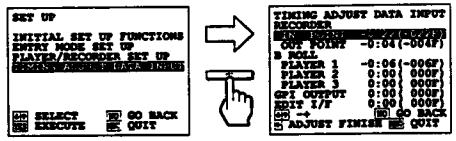
1 **Press MENU.**
The main menu appears.



2 **Press ↑, ↓ until the item for setting or adjusting the options appears, and press YES.**
The menu of the selected item appears.

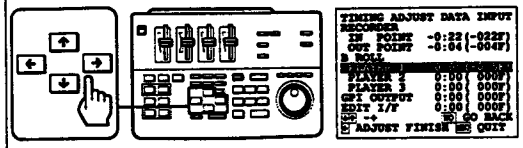


3 **Press ↑, ↓ to select the item for adjusting the timing manually, and press YES.**
The menu of the selected item appears.



4 **Press ↑, ↓ to select the player for which you want to revise the adjustment value, and then press →.**
To compensate for the recorder, GPI and EDIT I/F timing, select each item in this step.

5 **Press ↑, ↓ and change the adjustment value.**



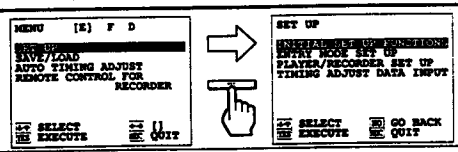
6 **Press MENU.**
The menu disappears.

Optional Settings

You can reset the performance of the unit to your preference.

Setting the Options

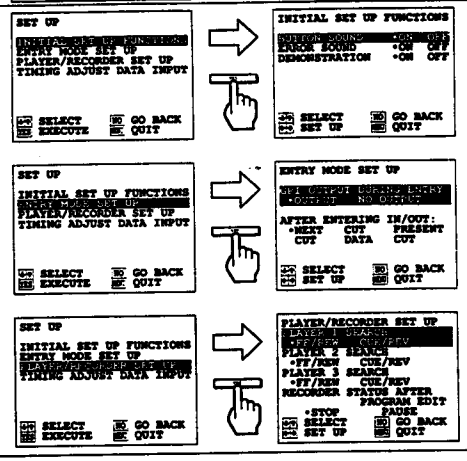
1 **Select the item for setting or adjusting the options in the menu.**



2 **Press ↑, ↓ to select the item for optional setting of:**

- Button sound, beeps, demonstration (INITIAL SET UP FUNCTIONS)
- how the unit should act while designating cuts (ENTRY MODE SET UP)
- how to transport the tape while executing the program editing (PLAYER/RECORDER SET UP).

See the next page for description of each option.



3 **Press ↑, ↓ to select the item you want to reset, and ←, → to select the setting.**

4 **When you have finished, press MENU.**
The menu disappears.

Description of Options

INITIAL SET UP FUNCTIONS

Menu display	Setting	Description
BUTTON SOUND	ON	A beep sounds when you press a button.
	OFF	No beep sounds.
ERROR SOUND	ON	Beeps sound to warn against wrong operation.
	OFF	No warning beeps sound.
DEMONSTRATION	ON	Demonstration appears when the power is turned on.
	OFF	No demonstration appears.

ENTRY MODE SET UP

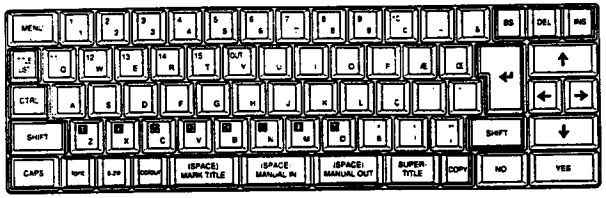
Menu display	Setting	Description
GPI OUTPUT DURING ENTRY	OUTPUT	During designation of the IN and OUT points on the entry mode display, the unit sends the GPI signal to the connected equipment when you press GPI.
	NO OUTPUT	The unit does not send the GPI signal during designation of the IN and OUT points. It sends the GPI signal during program editing instead.
AFTER ENTERING IN/OUT:	NEXT CUT	After the OUT point is set, the entry mode display to set the next IN point appears automatically. (The cut number increases.)
	CUT DATA	After each cut is set, the cut data display appears.
	PRESENT CUT	The cut number does not change. To change the cut number, press ↑, ↓.

PLAYER/RECORDER SET UP

Menu display	Setting	Description
PLAYER 1/2/3 SEARCH	FF/REW	Locates a scene by fast-forwarding or rewinding. You can set this player by player.
	CUE/REV	Locates a scene by fast-forward playback or reverse playback. You can set this player by player. **Note** If the interval between the cuts is too long, the recorder may release recording pause mode. In this case, change to fast-forward/rewind.
RECORDER STATUS AFTER PROGRAM EDIT	STOP	Sets the recorder to stop mode after program editing.
	PAUSE	Sets the recorder to pause mode.

Superimposing Titles

You can make titles using the keyboard and superimpose them in the program.

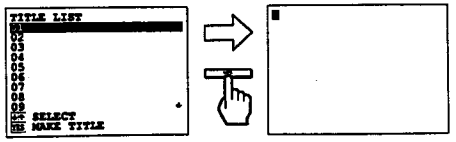


Making Titles

Use the buttons with white letters or marks.

1 Press TITLE LIST.
The title number list appears.

2 Press ↑, ↓ to select a title number, and press YES.
A blank screen appears.



3 Type in characters or a symbol.
See the next page for details.

4 When the title is completed, press TITLE LIST again.
The title is stored in the unit and the entry mode display appears.

To make other titles, repeat from step 1. Select a different title number in step 2.

To Type In Characters

Move the cursor to the desired position on the screen with the arrow buttons and press the character buttons. To place a blank space, press (SPACE).
You can type in characters up to 24 charaters per line and up to 12 lines per page.

To move the cursor to the next line, press ↵.

To erase the character you just typed in, press BS (back space).

To delete a character, move the cursor to the character you want to delete and press DEL.
To delete a line, move the cursor to the line you want to delete, press SHIFT and DEL at the same time.

To insert the characters,

1 Move the cursor to where you want to insert, and press INS.
A blank space is inserted.
2 Press INS repeatedly to insert enough spaces for the characters you want to insert.
If you want to overwrite, you do not need to insert spaces.
3 Type in characters.

To insert a line, move the cursor to where you want to insert, press SHIFT and INS at the same time.

Notes

- If there is a character at 24th character position, you cannot insert characters.
- If there is a line at 12th line position, you cannot insert a line.

To type in upper case (capital letters), press SHIFT and the character button at the same time. If you type in all capital letters, press CAPS. Press it again to release CAPS.

To type in European letters such as "å" for example, while pressing CTRL, press "!", then press "a". The CTRL button lets you select the character/mark on the upper right indication of the button.

To change the font, press "font".
3 kinds of font are available. Each time you press "font", the font changes.

To change the size, press "size".
4 kinds of size are available. Each time you press "size", the size changes.

Note on large characters

When you use large characters for a title, a parts of the title cannot fit in the screen. They, however, exists out of the screen and will appear when you superimpose the title.

To change the color, press "colour".
8 kinds of color are available. Each time you press "colour", the color changes.

Note on font, size and color

You can select only one kind of font, size or color per line.

To use a factory preset title, press SUPER-TITLE.
Each time you press SUPER-TITLE, the factory preset title changes.

To position the title, while pressing CTRL, press ↑, ↓, ←, → of the desired direction.

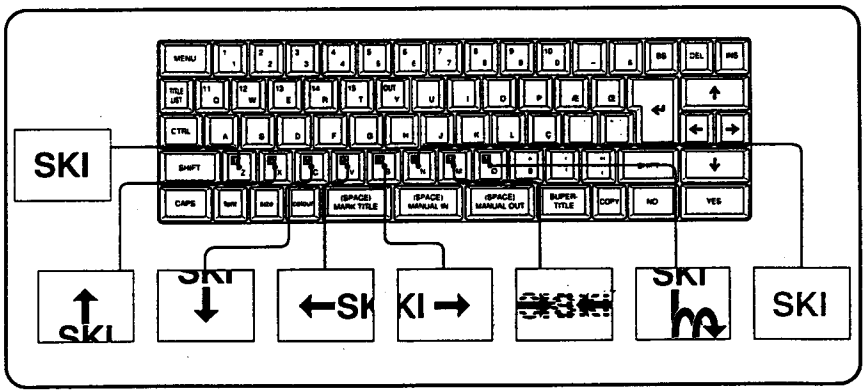
To change the line position, move the cursor to the line, then while pressing SHIFT, press ↑, ↓ until the line comes to the desired position.

How many titles can be stored?
You can make up to 5 titles per cut and store up to 15 titles per program.

To check the titles
Press TITLE LIST.
The list of stored titles appears.
Press again to make the title list disappear.

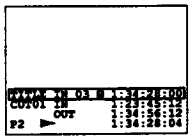
Superimposing the Titles

You can superimpose the titles in the entry mode display or in the cut data display.
Use the buttons with yellow letters or marks to superimpose the titles.
You can superimpose the titles with effect such as scroll.



In the entry mode display

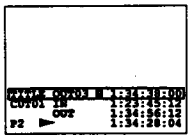
To superimpose the title



1 Press the title number key (1 to 15) on the keyboard.
2 Press the desired superimpose button.
3 Press MARK TITLE at the desired scene.
4 Press YES. The title indication disappears.

If you do not want to superimpose the title, press NO.

To turn off the title

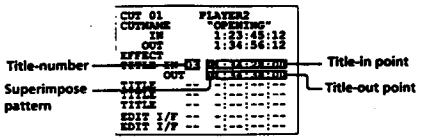


1 Press OUT.
2 Press the desired superimpose button.
3 Press MARK TITLE at the desired scene.
4 Press YES. The title indication disappears.

If you do not want to turn off the title, press NO.

In the cut data

Set the TITLE option using ↑, ↓, ←, →.



Superimposing titles directly

You can superimpose a title during designating cuts or executing the program editing.

To superimpose the title

1 Press the title number key.
2 Select the desired superimpose button.
3 Press MANUAL IN when you want to superimpose the title.

To turn off the title

1 Press the desired superimpose button.
2 Press MANUAL OUT when you want to turn off the title.

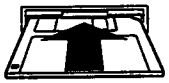
Saving/Loading the Program in the Disk

You can save program data including the titles in a Sony 3.5-inch floppy disk (2HD or 2DD) to load the data back to the unit to execute program editing.

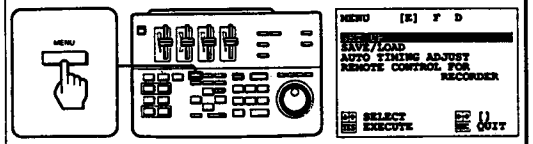
Saving the Program

You can save 1 program data in 1 disk.

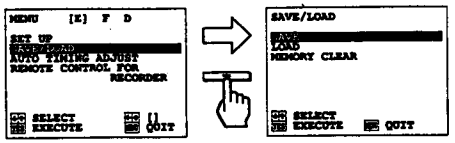
1 **When you have made a program, insert a disk in the floppy disk drive of the main unit.**



2 **Press MENU.**
The main menu appears.

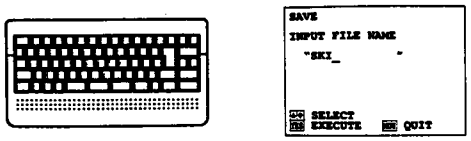


3 **Press ↑, ↓ to select the item to save or load a program, and press YES.**
The menu of the selected item appears.



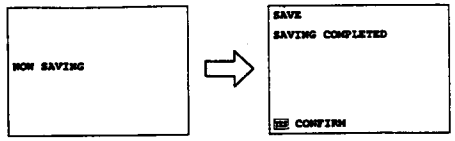
4 **As the item to save a program is selected, press YES.**
The message to confirm that the program should be saved appears. **Press YES again.**
If the disk has a program saved, the file name is displayed. Press YES to rewrite the disk. Press NO to cancel.
The display to input the file name appears.

5 **Type in the file name for the program using the keyboard.**
You can use up to 12 characters.



6 **Press YES.**
The unit formats the disk automatically and saves the program in the disk. It takes about 20 to 30 seconds.
If you do not want to save the program, press NO.

[a] Appears during saving
[b] Appears when saving is completed.



[a] [b]

7 **When the saving is completed, press YES.**
The entry mode display appears.

To Clear the Program Data from the Unit

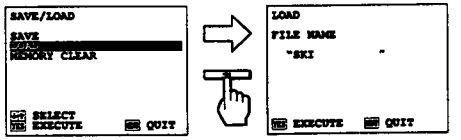
Select "CLEAR" in the SAVE/LOAD menu. See page 39 for details

Loading the Program Data from the Disk

1 **Insert the disk in the floppy disk drive of the main unit.**

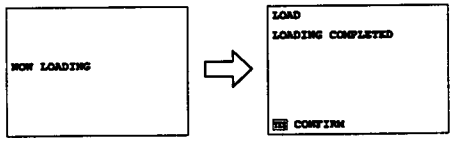
2 **Make the "SAVE/LOAD" display appear.**
Perform steps 2 and 3 of "Saving the Program".

3 **Press ↓ to select the item to load the data and press YES.**
The file name of the program will be displayed.



4 **Press YES again.**
The unit loads the program data. It takes about 5 to 10 seconds.
If you do not want to load the program, press NO.

[a] Appears during loading
[b] Appears when loading is completed.



[a] [b]

5 **Press YES again.**
The entry mode display appears.

6 **Insert the tapes in the same players as when you made the program. Execute program editing (page 32).**

Controlling the Digital SEG

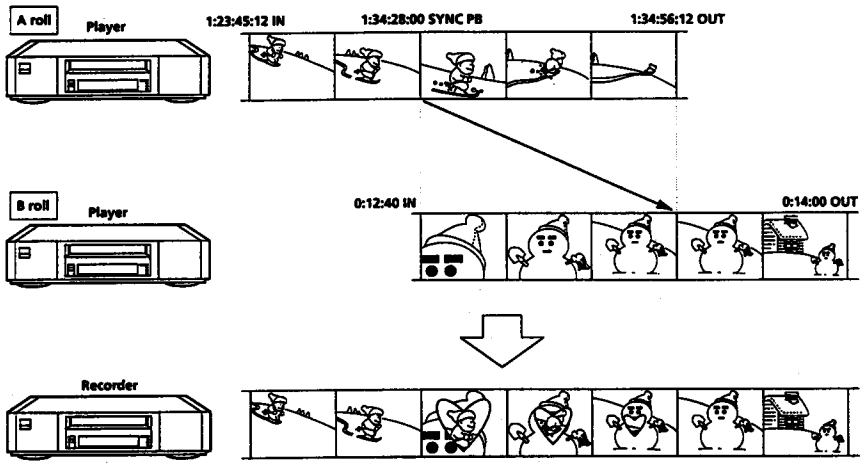
By connecting a Digital SEG having an EDIT I/F* or GPI* input jack, you can generate effects during editing.
* EDIT I/F (Edit Interface) and GPI (General Purpose Interface) signals are control signals output from the video editing controller to control external equipment other than the video recorder/player.

A/B Roll Edit by EDIT I/F

A/B roll edit switches 2 pictures while generating special effects such as overlapping and wiping. For A/B roll editing, you need 2 players, 1 recorder, and a Digital SEG having an EDIT I/F jack.

Note

This unit is unable to edit by ±0 frame accuracy.



You need to decide the following items for the A/B roll edit.

- A roll cut
  Cut to be played back before switching.
  Set the OUT point of the cut with extra seconds for switching scenes.
- B roll cut
  Cut to be played back after switching.
  Designate the cut of a different player from that of A roll cut.
- SYNC PB point
  Point to start B roll playback.
  When the A roll comes to the SYNC PB point, the B roll start playback.
- Special effect to switch the pictures
  Set the special effect on the Digital SEG.
- EDIT I/F point
  Point to start switching
  The unit transmits the EDIT I/F or GPI signal. In the above example, the EDIT I/F or GPI point is same as the SYNC PB point.

You can easily set these items on this unit, and execute the program edit with the A/B roll.

On the setting

- During A/B roll editing, the A roll cut is output from the PROCESSOR OUT 1 and the B roll cut from the PROCESSOR OUT 2. (The first cut played back is the A roll cut.)
- Make the program memory to switch from INPUT 1 to INPUT 2 on the Digital SEG.

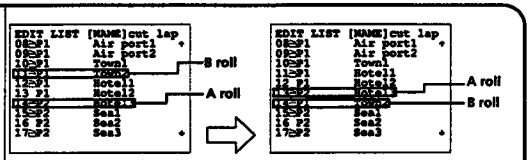
Notes

- If you use a player with a 4-digit counter, there will be a time lag.
- Make sure that you select separate players for the A roll and B roll.
- You cannot perform an A/B roll edit of more than 2 cuts continuously.
- The video/audio signal of the player selected when you pressed PROCESSOR ON/OFF to turn it on is output from PROCESSOR OUT 2 during setting.
- If the unit cannot execute the A/B roll edit because of an error in the A roll cut, the unit displays the message to indicate the cause.
  "☒ SYNC" appears on the edit list.

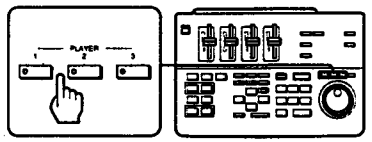
Setting the A/B Roll Edit in the Program

Connect the unit and the Digital SEG as shown on page 23.

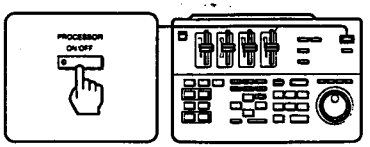
1 **On the edit list, move the B roll cut next to the A roll cut (p. 38).**



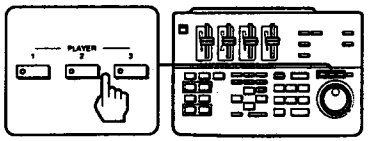
2 **Select the player of the B roll cut.**



3 **Press PROCESSOR ON/OFF to turn it on.**
If the button is lit, turn it off once.
Then turn it on again.
The video/audio signal of B roll player is input to the INPUT 2 jack of the Digital SEG.



4 **Select the player of the A roll cut.**
Select a player other than the one selected in step 2.
When you select a player on this unit afterward, the signal to the INPUT 1 jack of the Digital SEG switches. The signal to the INPUT 2 remains same as that of the player you selected in step 2.



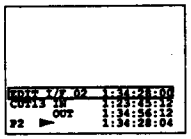
5 ***On the Digital SEG,* switch the pictures using the mix lever, etc. so that the INPUT 1 picture of the Digital SEG appears and make the program memory.**
See the operating instructions of the Digital SEG for making the program memory.

6 ***On the Digital SEG,* switch the pictures using the mix lever, etc. so that the INPUT 2 picture of the Digital SEG appears and make the program memory.**
Also set the switching speed and effect here.
Select a number other than the one used in step 5.

Continued to the next page

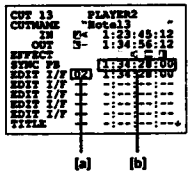
7 **In the A roll picture, locate the point to switch to the B roll picture.**
(1) Recall the program memory of the Digital SEG made in step 5.
(2) Start playback on the A roll player, locate the scene to switch the pictures and set to pause mode.

8 **Make the entry mode display of the A roll player appear, recall the program memory of the Digital SEG made in step 6 and press EDIT I/F.**
The recalled memory number and EDIT I/F point are displayed.



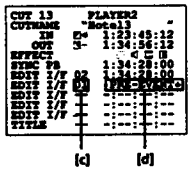
9 **Press CUT DATA to make the cut data display of the A roll cut appear, and set the SYNC PB point, which should be the same counter reading as that of the EDIT I/F point set in step 8.**

[a] Program memory number set in step 6.
[b] SYNC PB point



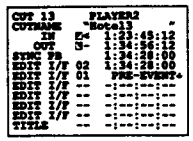
10 **Set the memory number made in step 5 to the blank item of EDIT I/F, and set the counter reading to "PRE-EVENT" by keeping ↑ pressed.**
The INPUT 1 signal needs to be selected before switching. Make the program memory to output the INPUT 1 signal on the Digital SEG and set it to PRE-EVENT. PRE-EVENT is the status before the cut is played back.

[c] Program memory number set in step 5.
[d] Set to PRE-EVENT.



Executing the A/B Roll Edit

Press EDIT START to execute the edit.
If you preview the A/B roll edit, press 1 CUT PREVIEW at the A roll cut.



Notes

- The number of EDIT I/F settings in a program is limited to the number of program memories available on the Digital SEG. (This unit can display up to 15.)
- This unit can control only 1 Digital SEG via the EDIT I/F jack.

A/B Roll Edit by GPI

Setting the A/B Roll Edit in the Program

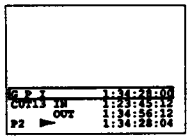
Connect the unit and the Digital SEG as shown on page 23.

1 – 4 **Perform in the same way as steps 1 to 4 on page 59.**

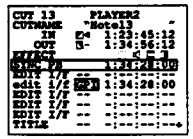
5 ***On the Digital SEG:***
- **to perform wipe or mixing only**
  Make the setting to switch from the INPUT 1 picture to the INPUT 2 picture.
- **to recall the program memories in sequence**
  (1) Make the program memory so that the INPUT 1 picture appears.
  (2) Switch the picture and make the next program memory so that the INPUT 2 picture appears.

6 **In the A roll picture, locate the point to switch to the B roll picture.**
(1) Make the INPUT 1 picture of the Digital SEG appear.
(2) Start playback on the A roll player, locate the scene to switch the pictures and set to pause mode.

7 **Make the entry mode display of the A roll player appear, and press GPI.**

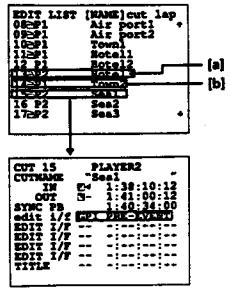


8 **Press CUT DATA to make the cut data display of the A roll cut appear, and set the SYNC PB point, which should be the same counter reading as that of the GPI point.**



9 **Make the cut data display of the cut next to the A/B roll appear, and set the counter reading to "PRE-EVENT" by keeping ↑ pressed.**
The INPUT 1 signal needs to be selected before switching. Make the program memory to output the INPUT 1 signal on the Digital SEG and set it to PRE-EVENT. PRE-EVENT is the status before the cut is played back.

[a] Aroll cut
[b] B roll cut



Executing the A/B Roll Edit

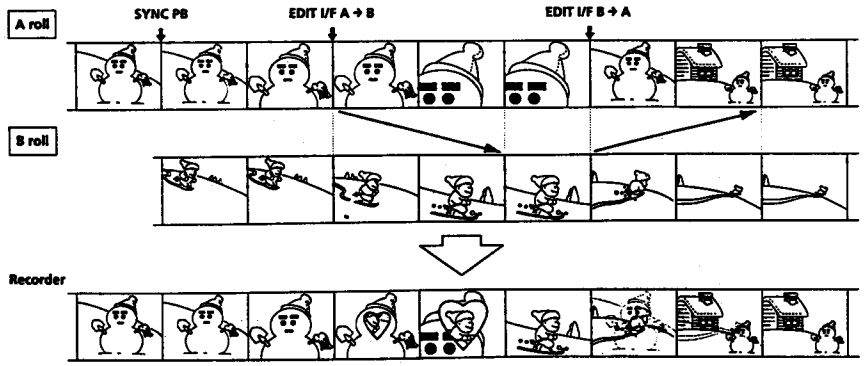
1 ***On the Digital SEG:***
- **To perform wipe or mixing only**
  Set the Digital SEG so that the INPUT 1 picture appears.
- **To recall the program memories in sequence**
  Recall the first program memory containing the setting to output the INPUT 1 picture.

2 **Press EDIT START to execute the edit.**
If you preview the A/B roll edit, press 1 CUT PREVIEW at the A roll cut.

A/B and B/A Roll Edit

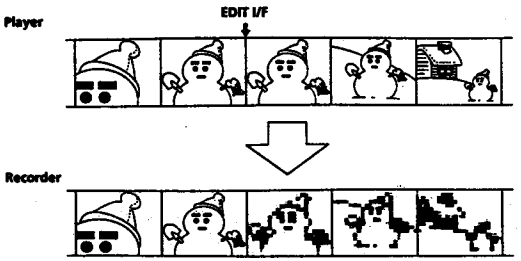
You can set up to 5 points of EDIT I/F and GPI in total in a cut.
By setting the long switching duration of the A roll and B roll, and recalling the program memory to output the A roll and the program memory to output the B roll alternately, you can switch the pictures in sequence.
This method is recommended to edit a video of long shots and one of close ups.

To execute the A/B and B/A roll, make the program memories on the Digital SEG.
- A/B roll ..... Program memory to switch from INPUT 1 to INPUT 2
- B/A roll ..... Program memory to switch from INPUT 2 to INPUT 1



Other Special Effects

When you recall the program memory of special effects, excluding switching pictures, you can record the cuts with mosaic and freeze effects.



Ref. No.	Part No.	Description			Remark
C622	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C622	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C623	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C624	1-163-239-11	CERAMIC CHIP (AEP, UK)	33PF	5%	50V
C624	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C625	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C626	1-124-779-00	ELECT CHIP	10uF	20%	16V
C627	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C628	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C671	1-124-779-00	ELECT CHIP	10uF	20%	16V
C672	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C673	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C674	1-126-395-11	ELECT	22uF	20%	16V
C675	1-126-395-11	ELECT	22uF	20%	16V
C676	1-124-779-00	ELECT CHIP	10uF	20%	16V
C677	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C678	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C679	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C680	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C681	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C682	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C683	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C684	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C685	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C701	1-124-779-00	ELECT CHIP	10uF	20%	16V
C702	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C707	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C708	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C709	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C710	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C711	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C712	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C714	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C715	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C716	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C717	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C718	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C719	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C720	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C721	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C722	1-163-096-00	CERAMIC CHIP (AEP, UK)	13PF	5%	50V
C722	1-163-098-00	CERAMIC CHIP (US, Canadian)	16PF	5%	50V
C723	1-163-241-11	CERAMIC CHIP (AEP, UK)	39PF	5%	50V
C723	1-163-243-11	CERAMIC CHIP (US, Canadian)	47PF	5%	50V
C724	1-163-116-00	CERAMIC CHIP (AEP, UK)	91PF	5%	50V
C724	1-163-251-11	CERAMIC CHIP (US, Canadian)	100PF	5%	50V
C725	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C740	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C743	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C744	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C745	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C746	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C747	1-126-193-11	ELECT	1uF	20%	50V
C748	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C749	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C750	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C751	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C752	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C753	1-164-699-11	CERAMIC CHIP	0.0033uF	5%	50V
C754	1-126-602-11	ELECT CHIP	3.3uF	20%	50V
C755	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C756	1-163-098-00	CERAMIC CHIP	16PF	5%	50V
C757	1-163-092-00	CERAMIC CHIP	9PF	0.25PF	50V
C758	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C761	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C762	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C763	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C771	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C772	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C773	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C776	1-164-699-11	CERAMIC CHIP	0.0033uF	5%	50V
C781	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C782	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C789	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C790	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C791	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C792	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C794	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C795	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C797	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C798	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C799	1-163-125-00	CERAMIC CHIP (AEP, UK)	220PF	5%	50V
C801	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C802	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C803	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C804	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C805	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V

Ref. No.	Part No.	Description			Remark
C806	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C807	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C808	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C810	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C811	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C812	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C813	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C816	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C817	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C818	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C819	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C820	1-126-395-11	ELECT	22uF	20%	16V
C821	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C822	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C823	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C831	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C832	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C833	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C834	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C881	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C882	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C883	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C884	1-124-779-00	ELECT CHIP	10uF	20%	16V
C891	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C892	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C893	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C894	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C896	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C897	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C898	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C899	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C901	1-124-779-00	ELECT CHIP	10uF	20%	16V
C903	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C904	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C905	1-124-360-00	ELECT	1000uF	20%	16V
C917	1-124-779-00	ELECT CHIP	10uF	20%	16V
C919	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C920	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C921	1-124-360-00	ELECT	1000uF	20%	16V
C933	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C935	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C936	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C949	1-124-779-00	ELECT CHIP	10uF	20%	16V
C951	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C952	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C953	1-124-360-00	ELECT	1000uF	20%	16V
C965	1-124-779-00	ELECT CHIP	10uF	20%	16V
C967	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C968	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C969	1-124-360-00	ELECT	1000uF	20%	16V
C981	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C983	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C984	1-164-232-11	CERAMIC CHIP	0.01uF		50V

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
* CN001	1-564-007-11	PIN, CONNECTOR 8P	
* CN101	1-562-717-11	CONNECTOR, 34P	
CN104	1-564-002-11	PIN, CONNECTOR 3P	
* CN201	1-562-717-11	CONNECTOR, 34P	
* CN301	1-562-717-11	CONNECTOR, 34P	
CN401	1-691-199-21	CONNECTOR, FPC 26P	
CN403	1-691-199-21	CONNECTOR, FPC 26P	
CN501	1-506-470-11	PIN, CONNECTOR 5P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D001	8-719-157-33	DIODE RD6.2M-B	
D002	8-719-157-33	DIODE RD6.2M-B	
D003	8-719-157-33	DIODE RD6.2M-B	
D004	8-719-157-33	DIODE RD6.2M-B	
D060	8-719-988-40	DIODE HVR17TRF	(AEP, UK)
D281	8-719-106-43	DIODE RD9.1M-B1	
D291	8-719-104-34	DIODE 1S2836	
D331	8-719-800-76	DIODE 1SS226	
D341	8-719-800-76	DIODE 1SS226	
D351	8-719-800-76	DIODE 1SS226	
D361	8-719-800-76	DIODE 1SS226	
D371	8-719-800-76	DIODE 1SS226	
D381	8-719-800-76	DIODE 1SS226	
D421	8-719-800-76	DIODE 1SS226	
D481	8-719-104-34	DIODE 1S2836	(US, Canadian)
D482	8-719-104-34	DIODE 1S2836	
D484	8-719-104-34	DIODE 1S2836	(AEP, UK)
D485	8-719-104-34	DIODE 1S2836	
D486	8-719-104-34	DIODE 1S2836	
D487	8-719-104-34	DIODE 1S2836	(US, Canadian)
D488	8-719-104-34	DIODE 1S2836	(AEP, UK)
D489	8-719-104-34	DIODE 1S2836	
D490	8-719-104-34	DIODE 1S2836	
D491	8-719-104-34	DIODE 1S2836	(US, Canadian)
D493	8-719-104-34	DIODE 1S2836	(US, Canadian)
D494	8-719-104-34	DIODE 1S2836	(US, Canadian)
D495	8-719-104-34	DIODE 1S2836	(AEP, UK)
D741	8-719-988-40	DIODE HVR17TRF	
D800	8-719-104-34	DIODE 1S2836	
D801	8-719-801-78	DIODE 1SS184	
D802	8-719-104-34	DIODE 1S2836	
D803	8-719-106-43	DIODE RD9.1M-B1	
D806	8-719-800-76	DIODE 1SS226	

Ref. No.	Part No.	Description	Remark
D807	8-719-157-33	DIODE RD6.2M-B	
D808	8-719-157-33	DIODE RD6.2M-B	
D809	8-719-157-33	DIODE RD6.2M-B	
D810	8-719-157-33	DIODE RD6.2M-B	
D811	8-719-157-33	DIODE RD6.2M-B	
D812	8-719-106-43	DIODE RD9.1M-B1	
D831	8-719-104-34	DIODE 1S2836	
D832	8-719-104-34	DIODE 1S2836	
D833	8-719-104-34	DIODE 1S2836	
D881	8-719-800-76	DIODE 1SS226	
D882	8-719-800-76	DIODE 1SS226	
D883	8-719-800-76	DIODE 1SS226	
D884	8-719-800-76	DIODE 1SS226	
D885	8-719-800-76	DIODE 1SS226	
D886	8-719-800-76	DIODE 1SS226	
D887	8-719-800-76	DIODE 1SS226	
D888	8-719-800-76	DIODE 1SS226	
D896	8-719-104-34	DIODE 1S2836	
D899	8-719-157-33	DIODE RD6.2M-B	
D901	8-719-800-76	DIODE 1SS226	
D917	8-719-800-76	DIODE 1SS226	
D933	8-719-800-76	DIODE 1SS226	
D949	8-719-800-76	DIODE 1SS226	
D965	8-719-800-76	DIODE 1SS226	
D981	8-719-800-76	DIODE 1SS226	
		< IC >	
IC013	8-759-300-71	IC HD14053BFP (PROCESSOR SELECTOR)	
IC014	8-759-300-71	IC HD14053BFP (PROCESSOR SELECTOR)	
IC101	8-759-100-96	IC uPC4558G2 (AUDIO AMP)	
IC102	8-759-100-96	IC uPC4558G2 (AUDIO AMP)	
IC103	8-759-100-96	IC uPC4558G2 (AUDIO AMP)	
IC104	8-759-100-96	IC uPC4558G2 (AUX AMP)	
IC141	8-759-009-06	IC MC14052BF (PROCESSOR SELECTOR)	
IC142	8-759-009-06	IC MC14052BF (PROCESSOR SELECTOR)	
IC151	8-759-100-96	IC uPC4558G2 (PROCESSOR AMP)	
IC152	8-759-300-71	IC HD14053BFP (PROCESSOR SELECTOR)	
IC153	8-759-300-71	IC HD14053BFP (PROCESSOR SELECTOR)	
IC161	8-759-100-96	IC uPC4558G2 (MAIN AMP)	
IC171	8-759-100-96	IC uPC4558G2 (PROCESSOR AMP)	
IC172	8-759-100-96	IC uPC4558G2 (PROCESSOR AMP)	
IC201	8-759-981-58	IC RC2043MD (MIC AMP)	
IC211	8-759-605-46	IC M51131L (MIC VCA)	
IC212	8-759-605-46	IC M51131L (AUX VCA)	
IC213	8-759-605-46	IC M51131L (MAIN VCA)	
IC241	8-759-100-96	IC uPC4558G2 (MIC AMP)	
IC261	8-759-100-96	IC uPC4558G2 (REC AMP)	
IC262	8-759-300-71	IC HD14053BFP (SELECTOR)	
IC263	8-759-100-96	IC uPC4558G2 (MONITOR AMP)	

Ref. No.	Part No.	Description	Remark
IC301	8-759-710-07	IC NJM2234M (VIDEO SELECTOR)	
IC302	8-759-710-07	IC NJM2234M (Y SELECTOR)	
IC303	8-759-710-07	IC NJM2234M (C SELECTOR)	
IC304	8-759-710-07	IC NJM2234M (VIDEO SELECTOR)	
IC305	8-759-710-07	IC NJM2234M (Y SELECTOR)	
IC306	8-759-710-07	IC NJM2234M (C SELECTOR)	
IC311	8-759-056-33	IC NJM2285M (MAIN SELECTOR)	
IC401	8-759-300-71	IC HD14053BFP (Y/C SELECTOR)	
IC402	8-759-300-71	IC HD14053BFP (MONOTONE SW)	
IC411	8-752-352-67	IC CXD1158M-T6 (INT SYSC & BURST GEN)	
IC421	8-759-032-01	IC MC74HC00AF (NAND)	
IC440	8-759-056-33	IC NJM2285M (INT/EXIT SELECTOR)	
IC441	8-759-605-29	IC CXA1054M (TIMING GEN & AGC)	
IC451	8-759-925-74	IC SN74HC04ANS (INV)	
IC471	8-759-631-08	IC M51279FP (ACC, ACK APC)	
IC490	8-759-926-74	IC SN74HC393ANS (H COUNTOR) (AEP, UK)	
IC491	8-759-926-74	IC SN74HC393ANS (H COUNTOR)	
IC492	8-759-032-01	IC MC74HC00AF (NAND)	
IC493	8-759-032-23	IC MC74HC74AF (D F/F)	
IC511	8-759-011-65	IC MC74HC4053F (Y MAIN FADER)	
IC512	8-759-011-65	IC MC74HC4053F (Y MAIN FADER)	
IC521	8-759-011-65	IC MC74HC4053F (C MAIN FADER)	
IC522	8-759-011-65	IC MC74HC4053F (C MAIN FADER)	
IC541	8-759-011-65	IC MC74HC4053F (MONI Y SELECT)	
IC551	8-759-011-65	IC MC74HC4053F (MONI C SELECT)	
IC561	8-759-011-65	IC MC74HC4053F (Y TITLE FADER)	
IC562	8-759-011-65	IC MC74HC4053F (Y TITLE FADER)	
IC571	8-759-011-65	IC MC74HC4053F (C TITLE FADER)	
IC572	8-759-011-65	IC MC74HC4053F (C TITLE FADER)	
IC591	8-759-032-01	IC MC74HC00AF (NAND)	
IC592	8-759-032-01	IC MC74HC00AF (NAND)	
IC601	8-759-056-33	IC NJM2285M (REC OUT SELECT)	
IC602	8-759-056-33	IC NJM2285M (MONITOR OUT SELECT)	
IC621	8-759-300-71	IC HD14053BFP (REC Y/C SELECTOR)	
⚠IC671	8-759-251-39	IC PQ12TZ1U (AVCC REG)	
IC672	8-759-157-22	IC PQ05TZ1U (AVMM REG)	
IC673	8-759-157-22	IC PQ05TZ1U (EVER5 REG)	
IC674	8-759-157-22	IC PQ05TZ1U (FD VDD REG)	
IC701	8-752-033-58	IC V7040 (Y&C ENCODER)	
IC702	8-759-032-16	IC MC74HC08AF-T2 (AND)	
IC741	8-759-987-20	IC CXD1229Q (910FH AFC)	
IC761	8-759-191-44	IC MB623831 (SCROLL G.A.)	
IC771	8-759-907-81	IC SN74LS221NS (H&V TIMING)	
IC772	8-759-907-81	IC SN74LS221NS (H&V TIMING)	
IC781	8-759-008-48	IC MC74HC86F (NOR)	
IC782	8-759-032-23	IC MC74HC74AF (NAND)	
IC783	8-759-032-01	IC MC74HC00AF (NAND)	
IC784	8-759-032-11	IC MC74HC04AF (INV)	
IC791	8-759-251-38	IC MB90076BPF-G-BND (OSD)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
IC793	8-759-274-02	IC HN62314BF (FRONT ROM)	
IC801	8-759-273-99	IC HD6473837F (FRONT MICOM)	
IC802	8-759-273-98	IC HD6473834F (EDIT MICOM)	
IC803	8-759-253-14	IC MB89131-165 (A ROLL LANC MICOM)	
IC804	8-759-253-14	IC MB89131-165 (B ROLL LANC MICOM)	
IC806	8-759-501-36	IC MB84256A-LL-PF-E1 (RAM)	
IC810	8-759-926-28	IC SN74HC174ANS (ADDRESS LATCH)	
IC811	8-759-926-28	IC SN74HC174ANS (ADDRESS LATCH)	
IC814	8-759-925-74	IC SN74HC04ANS (INV)	
IC815	8-759-032-23	IC MC74HC74AF (D F/F)	
IC821	8-759-009-06	IC MC14052BF (LANC I/O SELECTOR)	
IC822	8-759-009-06	IC MC14052BF (LANC I/O SELECTOR)	
IC881	8-759-032-11	IC MC74HC04AF (INV)	
IC882	8-759-925-80	IC SN74HC14ANS (INV)	
IC883	8-759-032-16	IC MC74HC08AF-T2 (AND)	
IC891	8-759-044-65	IC M62352FP (EVR)	
IC892	8-759-937-56	IC S-8054ALB-LM-S (RESET)	
IC893	8-759-511-00	IC RH5VA24AA (LOW BATT DET)	
IC897	8-759-274-01	IC HN62302BF (MENU ROM)	
IC898	8-759-032-01	IC MC74HC00AF (NAND)	
IC899	8-759-300-71	IC HD14053BFP (DATA BUS SELECTOR)	
IC900	8-759-274-03	IC uPD17203AGC (IR MICOM)	
		< COIL >	
L013	1-410-388-31	INDUCTOR CHIP 39uH	
L014	1-410-388-31	INDUCTOR CHIP 39uH	
L016	1-410-388-31	INDUCTOR CHIP 39uH	
L017	1-410-388-31	INDUCTOR CHIP 39uH	
L401	1-410-388-31	INDUCTOR CHIP 39uH	
L402	1-410-388-31	INDUCTOR CHIP 39uH	
L403	1-410-388-31	INDUCTOR CHIP 39uH	
L411	1-543-813-21	FILTER, EMI	
L412	1-410-384-31	INDUCTOR CHIP 18uH (AEP, UK)	
L412	1-410-385-11	INDUCTOR CHIP 22uH (US, Canadian)	
L413	1-410-392-11	INDUCTOR CHIP 82uH (AEP, UK)	
L413	1-410-393-11	INDUCTOR CHIP 100uH (US, Canadian)	
L414	1-410-393-11	INDUCTOR CHIP 100uH	
L441	1-543-813-21	FILTER, EMI	
L471	1-543-813-21	FILTER, EMI	
L621	1-410-388-31	INDUCTOR CHIP 39uH	
L622	1-410-388-31	INDUCTOR CHIP 39uH	
L701	1-410-387-11	INDUCTOR CHIP 33uH	
L702	1-410-387-11	INDUCTOR CHIP 33uH	
L703	1-410-382-31	INDUCTOR CHIP 12uH	
L704	1-410-382-31	INDUCTOR CHIP 12uH	
L705	1-410-386-11	INDUCTOR CHIP 27uH (AEP, UK)	
L705	1-410-387-11	INDUCTOR CHIP 33uH (US, Canadian)	
L706	1-410-387-11	INDUCTOR CHIP 33uH (AEP, UK)	
L706	1-410-388-31	INDUCTOR CHIP 39uH (US, Canadian)	
L707	1-410-384-31	INDUCTOR CHIP 18uH (AEP, UK)	
L707	1-410-385-11	INDUCTOR CHIP 22uH (US, Canadian)	
L742	1-410-377-31	INDUCTOR CHIP 4.7uH	
L743	1-543-813-21	FILTER, EMI	
L744	1-543-813-21	FILTER, EMI	
L745	1-543-813-21	FILTER, EMI	
L761	1-543-813-21	FILTER, EMI	
L762	1-543-813-21	FILTER, EMI	
L763	1-543-813-21	FILTER, EMI	
L791	1-543-813-21	FILTER, EMI	
L792	1-543-813-21	FILTER, EMI	
L793	1-543-775-11	FILTER, EMI	
L801	1-543-813-21	FILTER, EMI	
L802	1-543-813-21	FILTER, EMI	
L804	1-543-813-21	FILTER, EMI	
L805	1-543-813-21	FILTER, EMI	
L806	1-543-813-21	FILTER, EMI	
L807	1-543-813-21	FILTER, EMI	
L808	1-410-658-31	INDUCTOR CHIP 220uH	
L809	1-543-813-21	FILTER, EMI	
L810	1-543-813-21	FILTER, EMI	
L811	1-543-813-21	FILTER, EMI	
L881	1-543-813-21	FILTER, EMI	
L899	1-543-813-21	FILTER, EMI	
		< TRANSISTOR >	
Q013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q015	8-729-216-22	TRANSISTOR 2SA1162-G	
Q016	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q017	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q018	8-729-923-80	TRANSISTOR DTC143EK	
Q019	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q020	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q021	8-729-216-22	TRANSISTOR 2SA1162-G	
Q022	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q023	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q024	8-729-923-80	TRANSISTOR DTC143EK	
Q060	8-729-122-63	TRANSISTOR 2SA1226-E3 (AEP, UK)	
Q171	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q172	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q173	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q174	8-729-107-46	TRANSISTOR 2SC3624A-L15	
Q191	8-729-923-80	TRANSISTOR DTC143EK	
Q192	8-729-923-80	TRANSISTOR DTC143EK	
Q193	8-729-923-80	TRANSISTOR DTC143EK	
Q194	8-729-923-80	TRANSISTOR DTC143EK	
Q195	8-729-923-80	TRANSISTOR DTC143EK	
Q251	8-729-107-46	TRANSISTOR 2SC3624A-L15	

Ref. No.	Part No.	Description		Remark
Q252	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q261	8-729-923-80	TRANSISTOR	DTC143EK	
Q271	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q272	8-729-107-46	TRANSISTOR	2SC3624A-L15	
Q281	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q282	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q283	8-729-216-22	TRANSISTOR	2SA1162-G	
Q291	8-729-901-01	TRANSISTOR	DTC144EK	
Q331	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q332	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q333	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q334	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q335	8-729-216-22	TRANSISTOR	2SA1162-G	
Q341	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q342	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q343	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q344	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q345	8-729-216-22	TRANSISTOR	2SA1162-G	
Q351	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q352	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q353	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q354	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q355	8-729-216-22	TRANSISTOR	2SA1162-G	
Q361	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q362	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q363	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q364	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q365	8-729-216-22	TRANSISTOR	2SA1162-G	
Q371	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q372	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q373	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q374	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q375	8-729-216-22	TRANSISTOR	2SA1162-G	
Q381	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q382	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q383	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q384	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q385	8-729-216-22	TRANSISTOR	2SA1162-G	
Q401	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q402	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q403	8-729-216-22	TRANSISTOR	2SA1162-G	
Q404	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q405	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q406	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q407	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q408	8-729-923-80	TRANSISTOR	DTC143EK	
Q409	8-729-923-80	TRANSISTOR	DTC143EK	
Q421	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q422	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q423	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q441	8-729-901-47	TRANSISTOR	DTA143EK	
Q451	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q452	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q453	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q471	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q472	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q473	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q491	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q492	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q502	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q503	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q504	8-729-901-47	TRANSISTOR	DTA143EK	
Q531	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q532	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q533	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q534	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q535	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q536	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q537	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q541	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q542	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q543	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q544	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q545	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q551	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q552	8-729-216-22	TRANSISTOR	2SA1162-G	
Q553	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q554	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q581	8-729-216-22	TRANSISTOR	2SA1162-G	
Q582	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q591	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q592	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q603	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q604	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q605	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q606	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q621	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q622	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q623	8-729-216-22	TRANSISTOR	2SA1162-G	
Q624	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q625	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q626	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q627	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q628	8-729-923-80	TRANSISTOR	DTC143EK	
Q671	8-729-101-07	TRANSISTOR	2SB798-DL	
Q672	8-729-923-80	TRANSISTOR	DTC143EK	
Q701	8-729-120-28	TRANSISTOR	2SC1623-L5L6	

Ref. No.	Part No.	Description		Remark
Q702	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q703	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q704	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q705	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q706	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q707	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q708	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q709	8-729-923-80	TRANSISTOR	DTC143EK	
Q801	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q802	8-729-900-53	TRANSISTOR	DTC114EK	
Q803	8-729-901-01	TRANSISTOR	DTC144EK	
Q804	8-729-901-01	TRANSISTOR	DTC144EK	
Q811	8-729-901-47	TRANSISTOR	DTA143EK	
Q812	8-729-901-47	TRANSISTOR	DTA143EK	
Q813	8-729-901-47	TRANSISTOR	DTA143EK	
Q814	8-729-901-47	TRANSISTOR	DTA143EK	
Q815	8-729-901-47	TRANSISTOR	DTA143EK	
Q816	8-729-901-47	TRANSISTOR	DTA143EK	
Q831	8-729-900-53	TRANSISTOR	DTC114EK	
Q832	8-729-901-01	TRANSISTOR	DTC144EK	
Q833	8-729-900-53	TRANSISTOR	DTC114EK	
Q834	8-729-901-01	TRANSISTOR	DTC144EK	
Q835	8-729-900-53	TRANSISTOR	DTC114EK	
Q836	8-729-901-01	TRANSISTOR	DTC144EK	
Q881	8-729-140-47	TRANSISTOR	2SC3735-L-B35	
Q882	8-729-140-47	TRANSISTOR	2SC3735-L-B35	
Q883	8-729-140-47	TRANSISTOR	2SC3735-L-B35	
Q898	8-729-901-47	TRANSISTOR	DTA143EK	
Q899	8-729-901-47	TRANSISTOR	DTA143EK	
Q901	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q902	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q903	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q904	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q905	8-729-216-22	TRANSISTOR	2SA1162-G	
Q917	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q918	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q919	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q920	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q921	8-729-216-22	TRANSISTOR	2SA1162-G	
Q933	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q934	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q935	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q936	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q937	8-729-216-22	TRANSISTOR	2SA1162-G	
Q949	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q950	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q951	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q952	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q953	8-729-216-22	TRANSISTOR	2SA1162-G	

Ref. No.	Part No.	Description		Remark
Q965	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q966	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q967	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q968	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q969	8-729-216-22	TRANSISTOR	2SA1162-G	
Q981	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q982	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q983	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q984	8-729-120-28	TRANSISTOR	2SC1623-L5L6	
Q985	8-729-216-22	TRANSISTOR	2SA1162-G	
		< RESISTOR >		
R001	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R002	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R003	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R004	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R005	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R006	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R007	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R008	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R009	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R010	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R011	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R012	1-208-755-11	METAL GLAZE	75 0.50% 1/10W	
R013	1-216-041-00	METAL CHIP	470 5% 1/10W	
R014	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R015	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R016	1-216-081-00	METAL CHIP	22K 5% 1/10W	
R017	1-216-081-00	METAL CHIP	22K 5% 1/10W	
R018	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R019	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R020	1-216-041-00	METAL CHIP	470 5% 1/10W	
R021	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R022	1-216-073-00	METAL CHIP	10K 5% 1/10W	
R023	1-208-782-11	METAL GLAZE	1K 0.50% 1/10W	
R024	1-208-782-11	METAL GLAZE	1K 0.50% 1/10W	
R025	1-208-782-11	METAL GLAZE	1K 0.50% 1/10W	
R026	1-216-045-00	METAL CHIP	680 5% 1/10W	
R027	1-208-800-11	METAL GLAZE	5.6K 0.50% 1/10W	
R028	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R029	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R030	1-216-041-00	METAL CHIP	470 5% 1/10W	
R031	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R032	1-216-049-00	METAL CHIP	1K 5% 1/10W	
R033	1-216-081-00	METAL CHIP	22K 5% 1/10W	
R034	1-216-081-00	METAL CHIP	22K 5% 1/10W	
R035	1-216-041-00	METAL CHIP	470 5% 1/10W	
R036	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	
R037	1-216-049-00	METAL CHIP	1K 5% 1/10W	

AV-26P **AV-26U**

Ref. No.	Part No.	Description			Remark
R038	1-216-041-00	METAL CHIP	470	5%	1/10W
R039	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R040	1-216-073-00	METAL CHIP	10K	5%	1/10W
R041	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R042	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R043	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R044	1-216-045-00	METAL CHIP	680	5%	1/10W
R045	1-208-800-11	METAL GLAZE	5.6K	0.50%	1/10W
R046	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R047	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R048	1-216-041-00	METAL CHIP	470	5%	1/10W
R050	1-216-073-00	METAL CHIP (US, Canadian)	10K	5%	1/10W
R051	1-216-295-91	METAL GLAZE (US, Canadian)	0	5%	1/10W
R052	1-216-295-91	METAL GLAZE (US, Canadian)	0	5%	1/10W
R060	1-216-025-00	METAL CHIP (AEP, UK)	100	5%	1/10W
R061	1-216-085-00	METAL CHIP (AEP, UK)	33K	5%	1/10W
R062	1-216-073-00	METAL CHIP (AEP, UK)	10K	5%	1/10W
R063	1-216-121-00	METAL CHIP (AEP, UK)	1M	5%	1/10W
R064	1-208-826-11	METAL GLAZE (AEP, UK)	68K	0.50%	1/10W
R065	1-216-295-91	METAL GLAZE (AEP, UK)	0	5%	1/10W
R066	1-216-065-00	METAL CHIP (AEP, UK)	4.7K	5%	1/10W
R067	1-216-295-91	METAL GLAZE (AEP, UK)	0	5%	1/10W
R068	1-216-049-00	METAL CHIP (AEP, UK)	1K	5%	1/10W
R069	1-208-826-11	METAL GLAZE (AEP, UK)	68K	0.50%	1/10W
R070	1-216-081-00	METAL CHIP	22K	5%	1/10W
R071	1-216-081-00	METAL CHIP	22K	5%	1/10W
R072	1-216-081-00	METAL CHIP	22K	5%	1/10W
R073	1-216-081-00	METAL CHIP	22K	5%	1/10W
R074	1-216-081-00	METAL CHIP	22K	5%	1/10W
R075	1-216-081-00	METAL CHIP	22K	5%	1/10W
R076	1-216-081-00	METAL CHIP	22K	5%	1/10W
R077	1-216-081-00	METAL CHIP	22K	5%	1/10W
R078	1-216-121-00	METAL CHIP	1M	5%	1/10W
R079	1-216-121-00	METAL CHIP	1M	5%	1/10W
R080	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R081	1-208-755-11	METAL GLAZE	75	0.50%	1/10W
R082	1-208-755-11	METAL GLAZE	75	0.50%	1/10W
R083	1-208-755-11	METAL GLAZE	75	0.50%	1/10W

Ref. No.	Part No.	Description			Remark
R084	1-216-029-00	METAL CHIP	150	5%	1/10W
R085	1-216-029-00	METAL CHIP	150	5%	1/10W
R086	1-216-049-00	METAL CHIP	1K	5%	1/10W
R087	1-216-049-00	METAL CHIP	1K	5%	1/10W
R091	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W
R092	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W
R093	1-216-091-00	METAL CHIP	56K	5%	1/10W
R094	1-216-073-00	METAL CHIP	10K	5%	1/10W
R095	1-216-041-00	METAL CHIP	470	5%	1/10W
R096	1-216-097-00	METAL CHIP	100K	5%	1/10W
R097	1-216-097-00	METAL CHIP	100K	5%	1/10W
R101	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R102	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R103	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R104	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R105	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R106	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R107	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R108	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R109	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R110	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R111	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R112	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R113	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R114	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R115	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R116	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R117	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R118	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R119	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R120	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R121	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R122	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R123	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R124	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R125	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R126	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R127	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R128	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R129	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W
R130	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R131	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R132	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R141	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R142	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R143	1-216-073-00	METAL CHIP	10K	5%	1/10W
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W
R145	1-216-073-00	METAL CHIP	10K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description				Remark
R151	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R152	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R153	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R154	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R155	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R156	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R157	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R158	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R159	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R161	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R162	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R163	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R164	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R165	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R166	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R171	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R172	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R173	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R174	1-216-041-00	METAL CHIP	470	5%	1/10W	
R175	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R176	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R177	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R178	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R179	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R180	1-216-041-00	METAL CHIP	470	5%	1/10W	
R181	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R182	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R183	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R184	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R185	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R186	1-216-041-00	METAL CHIP	470	5%	1/10W	
R187	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R188	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R189	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R190	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R191	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R192	1-216-041-00	METAL CHIP	470	5%	1/10W	
R193	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R194	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R204	1-208-814-11	METAL GLAZE	22K	0.50%	1/10W	
R205	1-208-814-11	METAL GLAZE	22K	0.50%	1/10W	
R206	1-208-802-11	METAL GLAZE	6.8K	0.50%	1/10W	
R207	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R231	1-216-041-00	METAL CHIP	470	5%	1/10W	
R232	1-216-041-00	METAL CHIP	470	5%	1/10W	
R233	1-208-802-11	METAL GLAZE	6.8K	0.50%	1/10W	
R241	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R242	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R243	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R244	1-208-800-11	METAL GLAZE	5.6K	0.50%	1/10W	
R245	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R246	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R247	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R248	1-208-800-11	METAL GLAZE	5.6K	0.50%	1/10W	
R249	1-208-801-11	METAL GLAZE	6.2K	0.50%	1/10W	
R250	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R251	1-216-041-00	METAL CHIP	470	5%	1/10W	
R252	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R253	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R254	1-216-041-00	METAL CHIP	470	5%	1/10W	
R255	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R256	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R261	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R262	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R263	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R264	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R265	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R266	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R267	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R268	1-208-830-11	METAL GLAZE	100K	0.50%	1/10W	
R269	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R271	1-216-041-00	METAL CHIP	470	5%	1/10W	
R272	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R273	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R274	1-216-041-00	METAL CHIP	470	5%	1/10W	
R275	1-208-838-11	METAL GLAZE	220K	0.50%	1/10W	
R276	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R281	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R282	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R283	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R284	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R285	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R286	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R291	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R292	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R293	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R294	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R295	1-208-802-11	METAL GLAZE	6.8K	0.50%	1/10W	
R296	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R297	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R301	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W	
R302	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R303	1-216-041-00	METAL CHIP	470	5%	1/10W	
R304	1-216-033-00	METAL CHIP	220	5%	1/10W	
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R306	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W	
R307	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W	
R308	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	

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Ref. No.	Part No.	Description			Remark
R309	1-216-041-00	METAL CHIP	470	5%	1/10W
R310	1-216-041-00	METAL CHIP	470	5%	1/10W
R311	1-216-025-00	METAL CHIP	100	5%	1/10W
R312	1-216-001-00	METAL CHIP	10	5%	1/10W
R313	1-216-001-00	METAL CHIP	10	5%	1/10W
R314	1-216-025-00	METAL CHIP	100	5%	1/10W
R315	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R316	1-216-049-00	METAL CHIP	1K	5%	1/10W
R317	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R318	1-216-081-00	METAL CHIP	22K	5%	1/10W
R319	1-216-041-00	METAL CHIP	470	5%	1/10W
R320	1-216-033-00	METAL CHIP	220	5%	1/10W
R321	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R322	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R323	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R324	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R325	1-216-041-00	METAL CHIP	470	5%	1/10W
R326	1-216-041-00	METAL CHIP	470	5%	1/10W
R327	1-216-025-00	METAL CHIP	100	5%	1/10W
R328	1-216-001-00	METAL CHIP	10	5%	1/10W
R329	1-216-001-00	METAL CHIP	10	5%	1/10W
R330	1-216-025-00	METAL CHIP	100	5%	1/10W
R331	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R332	1-216-049-00	METAL CHIP	1K	5%	1/10W
R333	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R334	1-216-081-00	METAL CHIP	22K	5%	1/10W
R335	1-216-041-00	METAL CHIP	470	5%	1/10W
R336	1-216-033-00	METAL CHIP	220	5%	1/10W
R337	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R338	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R339	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R340	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R341	1-216-041-00	METAL CHIP	470	5%	1/10W
R342	1-216-041-00	METAL CHIP	470	5%	1/10W
R343	1-216-025-00	METAL CHIP	100	5%	1/10W
R344	1-216-001-00	METAL CHIP	10	5%	1/10W
R345	1-216-001-00	METAL CHIP	10	5%	1/10W
R346	1-216-025-00	METAL CHIP	100	5%	1/10W
R347	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R348	1-216-049-00	METAL CHIP	1K	5%	1/10W
R349	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R350	1-216-081-00	METAL CHIP	22K	5%	1/10W
R351	1-216-041-00	METAL CHIP	470	5%	1/10W
R352	1-216-033-00	METAL CHIP	220	5%	1/10W
R353	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R354	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R355	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R356	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R357	1-216-041-00	METAL CHIP	470	5%	1/10W

Ref. No.	Part No.	Description			Remark
R358	1-216-041-00	METAL CHIP	470	5%	1/10W
R359	1-216-025-00	METAL CHIP	100	5%	1/10W
R360	1-216-001-00	METAL CHIP	10	5%	1/10W
R361	1-216-001-00	METAL CHIP	10	5%	1/10W
R362	1-216-025-00	METAL CHIP	100	5%	1/10W
R363	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R364	1-216-049-00	METAL CHIP	1K	5%	1/10W
R365	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R366	1-216-081-00	METAL CHIP	22K	5%	1/10W
R367	1-216-041-00	METAL CHIP	470	5%	1/10W
R368	1-216-033-00	METAL CHIP	220	5%	1/10W
R369	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R370	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R371	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R372	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R373	1-216-041-00	METAL CHIP	470	5%	1/10W
R374	1-216-041-00	METAL CHIP	470	5%	1/10W
R375	1-216-025-00	METAL CHIP	100	5%	1/10W
R376	1-216-001-00	METAL CHIP	10	5%	1/10W
R377	1-216-001-00	METAL CHIP	10	5%	1/10W
R378	1-216-025-00	METAL CHIP	100	5%	1/10W
R379	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R380	1-216-049-00	METAL CHIP	1K	5%	1/10W
R381	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R382	1-216-081-00	METAL CHIP	22K	5%	1/10W
R383	1-216-041-00	METAL CHIP	470	5%	1/10W
R384	1-216-033-00	METAL CHIP	220	5%	1/10W
R385	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R386	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R387	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R388	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R389	1-216-041-00	METAL CHIP	470	5%	1/10W
R390	1-216-041-00	METAL CHIP	470	5%	1/10W
R391	1-216-025-00	METAL CHIP	100	5%	1/10W
R392	1-216-001-00	METAL CHIP	10	5%	1/10W
R393	1-216-001-00	METAL CHIP	10	5%	1/10W
R394	1-216-025-00	METAL CHIP	100	5%	1/10W
R395	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R396	1-216-049-00	METAL CHIP	1K	5%	1/10W
R397	1-216-027-00	METAL CHIP	120	5%	1/10W
R398	1-216-027-00	METAL CHIP	120	5%	1/10W
R401	1-216-041-00	METAL CHIP	470	5%	1/10W
R402	1-216-049-00	METAL CHIP	1K	5%	1/10W
R403	1-216-049-00	METAL CHIP	1K	5%	1/10W
R404	1-216-081-00	METAL CHIP	22K	5%	1/10W
R405	1-216-081-00	METAL CHIP	22K	5%	1/10W
R406	1-216-041-00	METAL CHIP	470	5%	1/10W
R407	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R408	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R409	1-216-041-00	METAL CHIP	470	5%	1/10W
R410	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-041-00	METAL CHIP	470	5%	1/10W
R413	1-216-049-00	METAL CHIP	1K	5%	1/10W
R414	1-216-041-00	METAL CHIP	470	5%	1/10W
R415	1-216-073-00	METAL CHIP	10K	5%	1/10W
R416	1-216-041-00	METAL CHIP	470	5%	1/10W
R417	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R418	1-216-041-00	METAL CHIP	470	5%	1/10W
R419	1-216-049-00	METAL CHIP	1K	5%	1/10W
R420	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R421	1-216-041-00	METAL CHIP	470	5%	1/10W
R422	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R423	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R424	1-216-073-00	METAL CHIP	10K	5%	1/10W
R425	1-216-049-00	METAL CHIP	1K	5%	1/10W
R426	1-216-073-00	METAL CHIP	10K	5%	1/10W
R427	1-216-041-00	METAL CHIP	470	5%	1/10W
R428	1-216-049-00	METAL CHIP	1K	5%	1/10W
R429	1-216-081-00	METAL CHIP	22K	5%	1/10W
R430	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R431	1-216-121-00	METAL CHIP	1M	5%	1/10W
R432	1-216-097-00	METAL CHIP	100K	5%	1/10W
R433	1-216-073-00	METAL CHIP	10K	5%	1/10W
R434	1-216-073-00	METAL CHIP	10K	5%	1/10W
R435	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R436	1-216-025-00	METAL CHIP	100	5%	1/10W
R437	1-216-049-00	METAL CHIP	1K	5%	1/10W
R438	1-216-049-00	METAL CHIP	1K	5%	1/10W
R439	1-216-025-00	METAL CHIP	100	5%	1/10W
R440	1-216-049-00	METAL CHIP	1K	5%	1/10W
R441	1-216-049-00	METAL CHIP	1K	5%	1/10W
R442	1-216-025-00	METAL CHIP	100	5%	1/10W
R443	1-216-049-00	METAL CHIP	1K	5%	1/10W
R444	1-216-049-00	METAL CHIP	1K	5%	1/10W
R445	1-216-049-00	METAL CHIP	1K	5%	1/10W
R446	1-216-075-00	METAL CHIP	12K	5%	1/10W
R447	1-216-113-00	METAL CHIP	470K	5%	1/10W
R448	1-216-099-00	METAL CHIP	120K	5%	1/10W
R449	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R450	1-216-049-00	METAL CHIP	1K	5%	1/10W
R451	1-216-295-91	METAL GLAZE	0	5%	1/10W
R452	1-208-802-11	METAL GLAZE	6.8K	0.50%	1/10W
R453	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R454	1-216-101-00	METAL CHIP	150K	5%	1/10W
R455	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R456	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R457	1-216-061-00	METAL CHIP	3.3K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R458	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R459	1-216-073-00	METAL CHIP	10K	5%	1/10W
R460	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R461	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R462	1-216-113-00	METAL CHIP	470K	5%	1/10W
R463	1-216-121-00	METAL CHIP	1M	5%	1/10W
R464	1-216-121-00	METAL CHIP	1M	5%	1/10W
R465	1-216-049-00	METAL CHIP	1K	5%	1/10W
R466	1-216-049-00	METAL CHIP	1K	5%	1/10W
R467	1-216-049-00	METAL CHIP	1K	5%	1/10W
R468	1-216-041-00	METAL CHIP	470	5%	1/10W
R469	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R470	1-216-095-00	METAL CHIP	82K	5%	1/10W
R471	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R472	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R473	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R474	1-216-041-00	METAL CHIP	470	5%	1/10W
R475	1-216-049-00	METAL CHIP	1K	5%	1/10W
R476	1-216-081-00	METAL CHIP	22K	5%	1/10W
R477	1-216-081-00	METAL CHIP	22K	5%	1/10W
R478	1-216-081-00	METAL CHIP	22K	5%	1/10W
R479	1-216-049-00	METAL CHIP	1K	5%	1/10W
R480	1-216-113-00	METAL CHIP	470K	5%	1/10W
R481	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R483	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R484	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R485	1-216-097-00	METAL CHIP	100K	5%	1/10W
R486	1-216-295-91	METAL GLAZE	0	5%	1/10W
R487	1-216-295-91	METAL GLAZE	0	5%	1/10W
R488	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R490	1-216-075-00	METAL CHIP	12K	5%	1/10W
R491	1-208-788-11	METAL GLAZE (AEP, UK)	1.8K	0.50%	1/10W
R491	1-216-051-00	METAL CHIP (US, Canadian)	1.2K	5%	1/10W
R492	1-208-789-11	METAL GLAZE (AEP, UK)	2K	0.50%	1/10W
R492	1-216-061-00	METAL CHIP (US, Canadian)	3.3K	5%	1/10W
R493	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R494	1-216-073-00	METAL CHIP	10K	5%	1/10W
R495	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R496	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R497	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R498	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R499	1-216-081-00	METAL CHIP	22K	5%	1/10W
R500	1-216-049-00	METAL CHIP	1K	5%	1/10W
R501	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R502	1-216-295-91	METAL GLAZE	0	5%	1/10W

AV-26P **AV-26U**

Ref. No.	Part No.	Description				Remark
R503	1-216-041-00	METAL CHIP	470	5%	1/10W	
R506	1-216-041-00	METAL CHIP	470	5%	1/10W	
R507	1-216-041-00	METAL CHIP	470	5%	1/10W	
R508	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R509	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R510	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R511	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R512	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R513	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R514	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R515	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R516	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R517	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R518	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R519	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R520	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R521	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R522	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R523	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R524	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R525	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R526	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R527	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R528	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R529	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R530	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R531	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R532	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R533	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R534	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R535	1-216-041-00	METAL CHIP	470	5%	1/10W	
R536	1-216-041-00	METAL CHIP	470	5%	1/10W	
R537	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R538	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R539	1-216-041-00	METAL CHIP	470	5%	1/10W	
R540	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R541	1-216-295-91	METAL GLAZE	0	5%	1/10W	
R542	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R543	1-216-041-00	METAL CHIP	470	5%	1/10W	
R544	1-216-041-00	METAL CHIP	470	5%	1/10W	
R545	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R546	1-216-041-00	METAL CHIP	470	5%	1/10W	
R547	1-216-041-00	METAL CHIP	470	5%	1/10W	
R548	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R549	1-216-295-91	METAL GLAZE	0	5%	1/10W	
R550	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R551	1-216-041-00	METAL CHIP	470	5%	1/10W	
R552	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R553	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R554	1-216-041-00	METAL CHIP	470	5%	1/10W	
R555	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R556	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R557	1-216-041-00	METAL CHIP	470	5%	1/10W	
R558	1-216-041-00	METAL CHIP	470	5%	1/10W	
R559	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R560	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R561	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R562	1-216-041-00	METAL CHIP	470	5%	1/10W	
R563	1-216-041-00	METAL CHIP	470	5%	1/10W	
R564	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R565	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R566	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R567	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R568	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R569	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R570	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R571	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R572	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R573	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R574	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R575	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R576	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R577	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R578	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R579	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R580	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R581	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R582	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R583	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R584	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R585	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R586	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R587	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W	
R588	1-216-041-00	METAL CHIP	470	5%	1/10W	
R589	1-216-041-00	METAL CHIP	470	5%	1/10W	
R590	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R591	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R592	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R593	1-216-041-00	METAL CHIP	470	5%	1/10W	
R594	1-216-041-00	METAL CHIP	470	5%	1/10W	
R595	1-216-015-00	METAL CHIP	39	5%	1/10W	
R596	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R599	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R600	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R602	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R603	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R604	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	
R605	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W	

Ref. No.	Part No.	Description			Remark
R606	1-216-073-00	METAL CHIP	10K	5%	1/10W
R607	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R608	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R609	1-216-027-00	METAL CHIP	120	5%	1/10W
R610	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R611	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R612	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R613	1-208-782-11	METAL GLAZE	1K	0.50%	1/10W
R614	1-216-073-00	METAL CHIP	10K	5%	1/10W
R615	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R616	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R617	1-216-027-00	METAL CHIP	120	5%	1/10W
R618	1-216-121-00	METAL CHIP	1M	5%	1/10W
R621	1-216-081-00	METAL CHIP	22K	5%	1/10W
R622	1-216-081-00	METAL CHIP	22K	5%	1/10W
R623	1-216-041-00	METAL CHIP	470	5%	1/10W
R624	1-216-049-00	METAL CHIP	1K	5%	1/10W
R625	1-216-049-00	METAL CHIP	1K	5%	1/10W
R626	1-216-081-00	METAL CHIP	22K	5%	1/10W
R627	1-216-081-00	METAL CHIP	22K	5%	1/10W
R628	1-216-041-00	METAL CHIP	470	5%	1/10W
R629	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R630	1-216-049-00	METAL CHIP	1K	5%	1/10W
R631	1-216-041-00	METAL CHIP	470	5%	1/10W
R632	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R633	1-216-073-00	METAL CHIP	10K	5%	1/10W
R634	1-216-041-00	METAL CHIP	470	5%	1/10W
R635	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R636	1-216-081-00	METAL CHIP	22K	5%	1/10W
R637	1-216-081-00	METAL CHIP	22K	5%	1/10W
R638	1-216-041-00	METAL CHIP	470	5%	1/10W
R639	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R640	1-216-081-00	METAL CHIP	22K	5%	1/10W
R641	1-216-081-00	METAL CHIP	22K	5%	1/10W
R642	1-216-041-00	METAL CHIP	470	5%	1/10W
R643	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R644	1-216-041-00	METAL CHIP	470	5%	1/10W
R645	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R671	1-216-049-00	METAL CHIP	1K	5%	1/10W
R672	1-216-049-00	METAL CHIP	1K	5%	1/10W
R681	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R682	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R683	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R684	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R685	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R686	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R687	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R688	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R689	1-208-762-11	METAL GLAZE	150	0.50%	1/10W

Ref. No.	Part No.	Description			Remark
R690	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R691	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R692	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R704	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R705	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R706	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R707	1-216-041-00	METAL CHIP	470	5%	1/10W
R708	1-216-041-00	METAL CHIP	470	5%	1/10W
R709	1-216-041-00	METAL CHIP	470	5%	1/10W
R710	1-216-049-00	METAL CHIP	1K	5%	1/10W
R711	1-216-049-00	METAL CHIP	1K	5%	1/10W
R712	1-216-049-00	METAL CHIP	1K	5%	1/10W
R713	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R714	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R715	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R716	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R717	1-216-041-00	METAL CHIP	470	5%	1/10W
R718	1-216-077-00	METAL CHIP	15K	5%	1/10W
R719	1-216-073-00	METAL CHIP	10K	5%	1/10W
R720	1-216-041-00	METAL CHIP	470	5%	1/10W
R721	1-216-041-00	METAL CHIP	470	5%	1/10W
R722	1-216-077-00	METAL CHIP	15K	5%	1/10W
R723	1-216-073-00	METAL CHIP	10K	5%	1/10W
R724	1-216-041-00	METAL CHIP	470	5%	1/10W
R725	1-216-041-00	METAL CHIP	470	5%	1/10W
R726	1-216-041-00	METAL CHIP	470	5%	1/10W
R727	1-216-041-00	METAL CHIP	470	5%	1/10W
R728	1-216-049-00	METAL CHIP	1K	5%	1/10W
R729	1-216-049-00	METAL CHIP	1K	5%	1/10W
R730	1-216-049-00	METAL CHIP	1K	5%	1/10W
R731	1-216-049-00	METAL CHIP	1K	5%	1/10W
R732	1-216-049-00	METAL CHIP	1K	5%	1/10W
R733	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R740	1-216-027-00	METAL CHIP	120	5%	1/10W
R745	1-208-779-11	METAL GLAZE	750	0.50%	1/10W
R746	1-216-117-00	METAL CHIP	680K	5%	1/10W
R747	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R748	1-216-021-00	METAL CHIP	68	5%	1/10W
R749	1-216-049-00	METAL CHIP	1K	5%	1/10W
R750	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R751	1-216-019-00	METAL CHIP	56	5%	1/10W
R752	1-216-049-00	METAL CHIP	1K	5%	1/10W
R753	1-216-073-00	METAL CHIP	10K	5%	1/10W
R754	1-216-049-00	METAL CHIP	1K	5%	1/10W
R755	1-216-085-00	METAL CHIP	33K	5%	1/10W
R756	1-216-085-00	METAL CHIP	33K	5%	1/10W
R757	1-216-085-00	METAL CHIP	33K	5%	1/10W
R758	1-216-073-00	METAL CHIP	10K	5%	1/10W
R759	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R771	1-208-801-11	METAL GLAZE	6.2K	0.50%	1/10W
R772	1-216-073-00	METAL CHIP	10K	5%	1/10W
R776	1-216-085-00	METAL CHIP	33K	5%	1/10W
R777	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R778	1-216-295-91	METAL GLAZE	0	5%	1/10W
R779	1-216-295-91	METAL GLAZE	0	5%	1/10W
R781	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R782	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R783	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R791	1-216-073-00	METAL CHIP	10K	5%	1/10W
R792	1-216-073-00	METAL CHIP	10K	5%	1/10W
R794	1-216-097-00	METAL CHIP	100K	5%	1/10W
R795	1-216-295-91	METAL GLAZE (US, Canadian)	0	5%	1/10W
R797	1-208-789-11	METAL GLAZE	2K	0.50%	1/10W
R798	1-216-073-00	METAL CHIP	10K	5%	1/10W
R799	1-216-073-00	METAL CHIP	10K	5%	1/10W
R800	1-216-073-00	METAL CHIP	10K	5%	1/10W
R801	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R802	1-216-073-00	METAL CHIP	10K	5%	1/10W
R803	1-216-073-00	METAL CHIP	10K	5%	1/10W
R804	1-216-073-00	METAL CHIP	10K	5%	1/10W
R805	1-216-073-00	METAL CHIP	10K	5%	1/10W
R806	1-216-073-00	METAL CHIP	10K	5%	1/10W
R807	1-216-073-00	METAL CHIP	10K	5%	1/10W
R808	1-216-073-00	METAL CHIP	10K	5%	1/10W
R809	1-216-073-00	METAL CHIP	10K	5%	1/10W
R810	1-216-073-00	METAL CHIP	10K	5%	1/10W
R811	1-216-073-00	METAL CHIP	10K	5%	1/10W
R812	1-216-073-00	METAL CHIP	10K	5%	1/10W
R813	1-216-073-00	METAL CHIP	10K	5%	1/10W
R814	1-216-073-00	METAL CHIP	10K	5%	1/10W
R820	1-216-049-00	METAL CHIP	1K	5%	1/10W
R821	1-216-073-00	METAL CHIP	10K	5%	1/10W
R822	1-216-097-00	METAL CHIP	100K	5%	1/10W
R823	1-216-085-00	METAL CHIP	33K	5%	1/10W
R824	1-216-073-00	METAL CHIP	10K	5%	1/10W
R825	1-216-073-00	METAL CHIP	10K	5%	1/10W
R826	1-216-073-00	METAL CHIP	10K	5%	1/10W
R827	1-216-073-00	METAL CHIP	10K	5%	1/10W
R828	1-216-073-00	METAL CHIP	10K	5%	1/10W
R829	1-216-073-00	METAL CHIP	10K	5%	1/10W
R830	1-216-073-00	METAL CHIP	10K	5%	1/10W
R831	1-216-073-00	METAL CHIP	10K	5%	1/10W
R832	1-216-073-00	METAL CHIP	10K	5%	1/10W
R833	1-216-073-00	METAL CHIP	10K	5%	1/10W
R834	1-216-073-00	METAL CHIP	10K	5%	1/10W
R835	1-216-073-00	METAL CHIP	10K	5%	1/10W
R836	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R837	1-216-041-00	METAL CHIP	470	5%	1/10W
R838	1-216-073-00	METAL CHIP	10K	5%	1/10W
R839	1-216-041-00	METAL CHIP	470	5%	1/10W
R840	1-216-073-00	METAL CHIP	10K	5%	1/10W
R841	1-216-121-00	METAL CHIP	1M	5%	1/10W
R842	1-216-033-00	METAL CHIP	220	5%	1/10W
R843	1-216-033-00	METAL CHIP	220	5%	1/10W
R847	1-216-073-00	METAL CHIP	10K	5%	1/10W
R848	1-216-073-00	METAL CHIP	10K	5%	1/10W
R849	1-216-073-00	METAL CHIP	10K	5%	1/10W
R850	1-216-073-00	METAL CHIP	10K	5%	1/10W
R851	1-216-073-00	METAL CHIP	10K	5%	1/10W
R852	1-216-073-00	METAL CHIP	10K	5%	1/10W
R853	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R854	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R855	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R856	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R857	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R858	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R861	1-216-073-00	METAL CHIP	10K	5%	1/10W
R862	1-216-073-00	METAL CHIP	10K	5%	1/10W
R863	1-216-073-00	METAL CHIP	10K	5%	1/10W
R866	1-216-073-00	METAL CHIP	10K	5%	1/10W
R867	1-216-073-00	METAL CHIP	10K	5%	1/10W
R868	1-216-073-00	METAL CHIP	10K	5%	1/10W
R870	1-216-295-91	METAL GLAZE	0	5%	1/10W
R871	1-216-295-91	METAL GLAZE (AEP, UK)	0	5%	1/10W
R872	1-216-295-91	METAL GLAZE	0	5%	1/10W
R874	1-216-041-00	METAL CHIP	470	5%	1/10W
R875	1-216-041-00	METAL CHIP	470	5%	1/10W
R878	1-216-073-00	METAL CHIP	10K	5%	1/10W
R879	1-216-073-00	METAL CHIP	10K	5%	1/10W
R880	1-216-073-00	METAL CHIP	10K	5%	1/10W
R881	1-216-025-00	METAL CHIP	100	5%	1/10W
R882	1-216-041-00	METAL CHIP	470	5%	1/10W
R883	1-208-786-11	METAL GLAZE	1.5K	0.50%	1/10W
R884	1-216-025-00	METAL CHIP	100	5%	1/10W
R885	1-216-049-00	METAL CHIP	1K	5%	1/10W
R886	1-208-786-11	METAL GLAZE	1.5K	0.50%	1/10W
R887	1-216-025-00	METAL CHIP	100	5%	1/10W
R888	1-208-786-11	METAL GLAZE	1.5K	0.50%	1/10W
R889	1-216-041-00	METAL CHIP	470	5%	1/10W
R890	1-216-073-00	METAL CHIP	10K	5%	1/10W
R891	1-216-025-00	METAL CHIP	100	5%	1/10W
R892	1-208-786-11	METAL GLAZE	1.5K	0.50%	1/10W
R893	1-216-041-00	METAL CHIP	470	5%	1/10W
R894	1-216-073-00	METAL CHIP	10K	5%	1/10W
R895	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R896	1-216-049-00	METAL CHIP	1K	5%	1/10W
R897	1-216-049-00	METAL CHIP	1K	5%	1/10W
R898	1-216-049-00	METAL CHIP	1K	5%	1/10W
R901	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
R903	1-216-041-00	METAL CHIP	470	5%	1/10W
R904	1-216-033-00	METAL CHIP	220	5%	1/10W
R905	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R906	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R907	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R908	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R909	1-216-041-00	METAL CHIP	470	5%	1/10W
R910	1-216-041-00	METAL CHIP	470	5%	1/10W
R911	1-216-025-00	METAL CHIP	100	5%	1/10W
R912	1-216-001-00	METAL CHIP	10	5%	1/10W
R913	1-216-001-00	METAL CHIP	10	5%	1/10W
R914	1-216-025-00	METAL CHIP	100	5%	1/10W
R915	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R916	1-216-049-00	METAL CHIP	1K	5%	1/10W
R917	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R918	1-216-081-00	METAL CHIP	22K	5%	1/10W
R919	1-216-041-00	METAL CHIP	470	5%	1/10W
R920	1-216-033-00	METAL CHIP	220	5%	1/10W
R921	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R922	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R923	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R924	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R925	1-216-041-00	METAL CHIP	470	5%	1/10W
R926	1-216-041-00	METAL CHIP	470	5%	1/10W
R927	1-216-025-00	METAL CHIP	100	5%	1/10W
R928	1-216-001-00	METAL CHIP	10	5%	1/10W
R929	1-216-001-00	METAL CHIP	10	5%	1/10W
R930	1-216-025-00	METAL CHIP	100	5%	1/10W
R931	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R932	1-216-049-00	METAL CHIP	1K	5%	1/10W
R933	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R934	1-216-081-00	METAL CHIP	22K	5%	1/10W
R935	1-216-041-00	METAL CHIP	470	5%	1/10W
R936	1-216-033-00	METAL CHIP	220	5%	1/10W
R937	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R938	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R939	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R940	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R941	1-216-041-00	METAL CHIP	470	5%	1/10W
R942	1-216-041-00	METAL CHIP	470	5%	1/10W
R943	1-216-025-00	METAL CHIP	100	5%	1/10W
R944	1-216-001-00	METAL CHIP	10	5%	1/10W
R945	1-216-001-00	METAL CHIP	10	5%	1/10W
R946	1-216-025-00	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R947	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R948	1-216-049-00	METAL CHIP	1K	5%	1/10W
R949	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R950	1-216-081-00	METAL CHIP	22K	5%	1/10W
R951	1-216-041-00	METAL CHIP	470	5%	1/10W
R952	1-216-033-00	METAL CHIP	220	5%	1/10W
R953	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R954	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R955	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R956	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R957	1-216-041-00	METAL CHIP	470	5%	1/10W
R958	1-216-041-00	METAL CHIP	470	5%	1/10W
R959	1-216-025-00	METAL CHIP	100	5%	1/10W
R960	1-216-001-00	METAL CHIP	10	5%	1/10W
R961	1-216-001-00	METAL CHIP	10	5%	1/10W
R962	1-216-025-00	METAL CHIP	100	5%	1/10W
R963	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R964	1-216-049-00	METAL CHIP	1K	5%	1/10W
R965	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R966	1-216-081-00	METAL CHIP	22K	5%	1/10W
R967	1-216-041-00	METAL CHIP	470	5%	1/10W
R968	1-216-033-00	METAL CHIP	220	5%	1/10W
R969	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R970	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R971	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R972	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R973	1-216-041-00	METAL CHIP	470	5%	1/10W
R974	1-216-041-00	METAL CHIP	470	5%	1/10W
R975	1-216-025-00	METAL CHIP	100	5%	1/10W
R976	1-216-001-00	METAL CHIP	10	5%	1/10W
R977	1-216-001-00	METAL CHIP	10	5%	1/10W
R978	1-216-025-00	METAL CHIP	100	5%	1/10W
R979	1-208-762-11	METAL GLAZE	150	0.50%	1/10W
R980	1-216-049-00	METAL CHIP	1K	5%	1/10W
R981	1-208-826-11	METAL GLAZE	68K	0.50%	1/10W
R982	1-216-081-00	METAL CHIP	22K	5%	1/10W
R983	1-216-041-00	METAL CHIP	470	5%	1/10W
R984	1-216-033-00	METAL CHIP	220	5%	1/10W
R985	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R986	1-208-788-11	METAL GLAZE	1.8K	0.50%	1/10W
R987	1-208-790-11	METAL GLAZE	2.2K	0.50%	1/10W
R988	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R989	1-216-041-00	METAL CHIP	470	5%	1/10W
R990	1-216-041-00	METAL CHIP	470	5%	1/10W
R991	1-216-025-00	METAL CHIP	100	5%	1/10W
R992	1-216-001-00	METAL CHIP	10	5%	1/10W
R993	1-216-001-00	METAL CHIP	10	5%	1/10W
R994	1-216-025-00	METAL CHIP	100	5%	1/10W
R995	1-208-762-11	METAL GLAZE	150	0.50%	1/10W

Ref. No.	Part No.	Description			Remark
R996	1-216-049-00	METAL CHIP	1K	5%	1/10W
R997	1-216-027-00	METAL CHIP	120	5%	1/10W
R998	1-216-027-00	METAL CHIP	120	5%	1/10W
R999	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV451	1-241-594-11	RES, ADJ, METAL GRAZE 10K			
RV471	1-241-594-11	RES, ADJ, METAL GRAZE 10K (US, CND)			
RV501	1-241-592-11	RES, ADJ, METAL GRAZE 2.2K			
RV701	1-241-591-11	RES, ADJ, METAL GRAZE 1K			
		< TEST PIN >			
TP060	1-535-757-11	CHIP, CHECKER (AEP, UK)			
TP411	1-535-757-11	CHIP, CHECKER			
TP741	1-535-757-11	CHIP, CHECKER			
TP801	1-535-757-11	CHIP, CHECKER			
TP802	1-535-757-11	CHIP, CHECKER			
TP803	1-535-757-11	CHIP, CHECKER			
TP804	1-535-757-11	CHIP, CHECKER			
		< VIBRATOR >			
X050	1-579-738-21	VIBRATOR, CRYSTAL (14.32MHz) (US, Canadian)			
X060	1-579-780-21	VIBRATOR, CRYSTAL (17.73MHz) (AEP, UK)			
X061	1-579-519-21	VIBRATOR, CRYSTAL (14.20MHz) (AEP, UK)			
X471	1-579-780-21	VIBRATOR, CRYSTAL (17.73MHz) (AEP, UK)			
X471	1-579-738-21	VIBRATOR, CRYSTAL (14.32MHz) (US, Canadian)			
X801	1-567-132-00	OSCILLATOR, CERAMIC (8.00MHz)			
X802	1-567-132-00	OSCILLATOR, CERAMIC (8.00MHz)			
X803	1-577-082-11	VIBRATOR, CERAMIC (4MHz)			
X900	1-577-082-11	VIBRATOR, CERAMIC (4MHz)			
**********					
*	A-7063-867-A	CM-42 BOARD, COMPLETE			
		********** (Ref. No 4,000 series)			
		< BUZZER >			
BZ001	1-529-070-11	BUZZER			
		< CAPACITOR >			
C001	1-124-589-11	ELECT	47uF	20%	16V
C002	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C003	1-124-584-00	ELECT	100uF	20%	10V
C004	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C010	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C011	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C012	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C013	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C014	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C015	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C100	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN001	1-506-487-11	PIN, CONNECTOR 8P			
		< DIODE >			
D001	8-719-106-43	DIODE	RD9.1M-B1		
D002	8-719-157-33	DIODE	RD6.2M-B		
D003	8-719-800-76	DIODE	1SS226		
D004	8-719-800-76	DIODE	1SS226		
D005	8-719-800-76	DIODE	1SS226		
D006	8-719-800-76	DIODE	1SS226		
D007	8-719-157-33	DIODE	RD6.2M-B		
D008	8-719-157-33	DIODE	RD6.2M-B		
D010	8-719-970-40	LED	GL1EG11 (POWER)		
D012	8-719-970-40	LED	GL1EG11 (POWER)		
D090	8-719-157-33	DIODE	RD6.2M-B		
D091	8-719-157-33	DIODE	RD6.2M-B		
D100	8-719-047-23	LED	LT3S43P (PROCESSOR)		
D101	8-719-047-23	LED	LT3S43P (DISPLAY)		
D102	8-719-047-23	LED	LT3S43P (CINEMA)		
D103	8-719-047-23	LED	LT3S43P (MONOTONE)		
D104	8-719-047-23	LED	LT3S43P (WHITE)		
D105	8-719-047-23	LED	LT3S43P (BLACK)		
D106	8-719-970-91	LED	GL1HS112 (PLAYER 3)		
D107	8-719-970-91	LED	GL1HS112 (PLAYER 2)		
D108	8-719-970-91	LED	GL1HS112 (PLAYER 1)		
D109	8-719-970-91	LED	GL1HS112 (RECORDER)		
D110	8-719-047-23	LED	LT3S43P (PREVIEW)		
D111	8-719-047-23	LED	LT3S43P (PREVIEW)		
D112	8-719-047-23	LED	LT3S43P (PREVIEW)		
D113	8-719-047-23	LED	LT3S43P (PREVIEW)		
D114	8-719-047-23	LED	LT3S43P (1 EVENT PREVIEW)		
D115	8-719-047-23	LED	LT3S43P (1 EVENT PREVIEW)		
D116	8-719-047-23	LED	LT3S43P (1 EVENT PREVIEW)		
D117	8-719-047-23	LED	LT3S43P (1 EVENT PREVIEW)		
D118	8-719-047-23	LED	LT3S43P (GO TO)		
D119	8-719-047-23	LED	LT3S43P (GO TO)		
D120	8-719-047-23	LED	LT3S43P (GO TO)		
D121	8-719-047-23	LED	LT3S43P (GO TO)		
D122	8-719-047-23	LED	LT3S43P (EDIT START)		
D123	8-719-047-23	LED	LT3S43P (EDIT START)		
D124	8-719-047-23	LED	LT3S43P (EDIT START)		
D125	8-719-047-23	LED	LT3S43P (EDIT START)		

Ref. No.	Part No.	Description	Remark
		< FERRITE BEAD >	
FB002	1-543-813-21	FILTER, EMI	
FB003	1-543-813-21	FILTER, EMI	
FB004	1-543-813-21	FILTER, EMI	
FB005	1-543-813-21	FILTER, EMI	
FB006	1-543-813-21	FILTER, EMI	
FB007	1-543-813-21	FILTER, EMI	
		< IC >	
IC001	8-759-157-17	IC PQ05SZ1U (REG)	
IC003	8-759-636-56	IC M66311FP (S-P CONV.)	
IC004	8-759-032-01	IC MC74HC00AF (NAND)	
IC014	8-759-253-14	IC MB89131-165 (CONTROL MICOM)	
IC015	8-759-937-56	IC S-8054ALB-LM-S (RESET)	
		< ROTARY SWITCH >	
JG001	1-572-711-11	SWITCH, ROTARY (ENCODER) (REVIRSE/FORWARD)	
		< TRANSISTOR >	
Q001	8-729-140-47	TRANSISTOR 2SC3735-L-B35	
Q004	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q005	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q006	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q007	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q008	8-729-901-01	TRANSISTOR DTC144EK	
Q100	8-729-901-47	TRANSISTOR DTA143EK	
Q101	8-729-901-47	TRANSISTOR DTA143EK	
Q102	8-729-901-47	TRANSISTOR DTA143EK	
Q103	8-729-901-47	TRANSISTOR DTA143EK	
Q104	8-729-901-01	TRANSISTOR DTC144EK	
Q105	8-729-901-01	TRANSISTOR DTC144EK	
Q106	8-729-901-01	TRANSISTOR DTC144EK	
Q107	8-729-901-01	TRANSISTOR DTC144EK	
Q108	8-729-901-01	TRANSISTOR DTC144EK	
Q109	8-729-901-01	TRANSISTOR DTC144EK	
Q110	8-729-901-01	TRANSISTOR DTC144EK	
Q111	8-729-901-01	TRANSISTOR DTC144EK	
		< RESISTOR >	
R001	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R002	1-216-025-00	METAL CHIP 100 5%	1/10W
R003	1-216-049-00	METAL CHIP 1K 5%	1/10W
R004	1-216-025-00	METAL CHIP 100 5%	1/10W
R005	1-216-049-00	METAL CHIP 1K 5%	1/10W
R006	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R007	1-216-073-00	METAL CHIP 10K 5%	1/10W
R008	1-216-025-00	METAL CHIP 100 5%	1/10W

Ref. No.	Part No.	Description	Remark
R009	1-216-041-00	METAL CHIP 470 5%	1/10W
R010	1-216-025-00	METAL CHIP 100 5%	1/10W
R012	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R013	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R016	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R017	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R018	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R019	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R021	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R023	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R024	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R025	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R032	1-216-033-00	METAL CHIP 220 5%	1/10W
R034	1-216-033-00	METAL CHIP 220 5%	1/10W
R038	1-216-073-00	METAL CHIP 10K 5%	1/10W
R039	1-216-073-00	METAL CHIP 10K 5%	1/10W
R040	1-216-103-91	METAL GLAZE 180K 5%	1/10W
R041	1-216-103-91	METAL GLAZE 180K 5%	1/10W
R042	1-216-085-00	METAL CHIP 33K 5%	1/10W
R043	1-216-045-00	METAL CHIP 680 5%	1/10W
R044	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R045	1-216-089-91	METAL GLAZE 47K 5%	1/10W
R046	1-216-049-00	METAL CHIP 1K 5%	1/10W
R047	1-216-085-00	METAL CHIP 33K 5%	1/10W
R048	1-216-085-00	METAL CHIP 33K 5%	1/10W
R049	1-216-085-00	METAL CHIP 33K 5%	1/10W
R050	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R051	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R052	1-216-085-00	METAL CHIP 33K 5%	1/10W
R091	1-216-073-00	METAL CHIP 10K 5%	1/10W
R092	1-216-073-00	METAL CHIP 10K 5%	1/10W
R093	1-216-073-00	METAL CHIP 10K 5%	1/10W
R094	1-216-073-00	METAL CHIP 10K 5%	1/10W
R095	1-216-073-00	METAL CHIP 10K 5%	1/10W
R096	1-216-073-00	METAL CHIP 10K 5%	1/10W
R100	1-216-085-00	METAL CHIP 33K 5%	1/10W
R101	1-216-049-00	METAL CHIP 1K 5%	1/10W
R102	1-216-029-00	METAL CHIP 150 5%	1/10W
R103	1-216-029-00	METAL CHIP 150 5%	1/10W
R104	1-216-029-00	METAL CHIP 150 5%	1/10W
R105	1-216-029-00	METAL CHIP 150 5%	1/10W
R106	1-216-029-00	METAL CHIP 150 5%	1/10W
R107	1-216-029-00	METAL CHIP 150 5%	1/10W
R108	1-216-029-00	METAL CHIP 150 5%	1/10W
R109	1-216-029-00	METAL CHIP 150 5%	1/10W
R110	1-216-029-00	METAL CHIP 150 5%	1/10W
R111	1-216-029-00	METAL CHIP 150 5%	1/10W
R112	1-216-029-00	METAL CHIP 150 5%	1/10W
R113	1-216-029-00	METAL CHIP 150 5%	1/10W

Ref. No.	Part No.	Description			Remark
R114	1-216-029-00	METAL CHIP	150	5%	1/10W
R115	1-216-029-00	METAL CHIP	150	5%	1/10W
R116	1-216-029-00	METAL CHIP	150	5%	1/10W
R117	1-216-029-00	METAL CHIP	150	5%	1/10W
R118	1-216-029-00	METAL CHIP	150	5%	1/10W
R119	1-216-029-00	METAL CHIP	150	5%	1/10W
R120	1-216-029-00	METAL CHIP	150	5%	1/10W
R121	1-216-029-00	METAL CHIP	150	5%	1/10W
R122	1-216-029-00	METAL CHIP	150	5%	1/10W
R123	1-216-029-00	METAL CHIP	150	5%	1/10W
R124	1-216-029-00	METAL CHIP	150	5%	1/10W
R125	1-216-029-00	METAL CHIP	150	5%	1/10W
R126	1-216-029-00	METAL CHIP	150	5%	1/10W
R127	1-216-029-00	METAL CHIP	150	5%	1/10W
		< VARIABLE RESISTOR >			
RV010	1-230-070-21	RES, VAR, SLIDE 10K (MIC LEVEL)			
RV011	1-230-070-21	RES, VAR, SLIDE 10K (AUDIO MIX)			
RV012	1-230-070-21	RES, VAR, SLIDE 10K (AUDIO/FADER)			
RV013	1-230-070-21	RES, VAR, SLIDE 10K (VIDEO/FADER)			
		< SWITCH >			
S001	1-572-596-11	SWITCH, KEY BOARD (PLAYER 1)			
S002	1-572-596-11	SWITCH, KEY BOARD (PLAYER 2)			
S003	1-572-596-11	SWITCH, KEY BOARD (PLAYER 3)			
S004	1-572-596-11	SWITCH, KEY BOARD (RECORDER)			
S005	1-571-977-11	SWITCH, TACTIL (DISPLAY ON/OFF)			
S007	1-571-977-11	SWITCH, TACTIL (PROCESSOR ON/OFF)			
S008	1-571-977-11	SWITCH, TACTIL (DEL)			
S009	1-571-977-11	SWITCH, TACTIL (FRAME)			
S010	1-571-977-11	SWITCH, TACTIL (SLOW)			
S011	1-571-977-11	SWITCH, TACTIL (WHITE)			
S012	1-571-977-11	SWITCH, TACTIL (BLACK)			
S013	1-571-977-11	SWITCH, TACTIL (MONOTONE)			
S014	1-571-977-11	SWITCH, TACTIL (CINEMA)			
S017	1-571-977-11	SWITCH, TACTIL (POWER ON/OFF)			
S018	1-571-977-11	SWITCH, TACTIL (PAUSE)			
S019	1-571-977-11	SWITCH, TACTIL (STOP)			
S020	1-571-977-11	SWITCH, TACTIL (PLAY)			
S021	1-571-977-11	SWITCH, TACTIL (FF)			
S022	1-571-977-11	SWITCH, TACTIL (REW)			
S023	1-571-977-11	SWITCH, TACTIL (REC)			
S024	1-571-977-11	SWITCH, TACTIL (COUNTER RESET)			
S025	1-571-977-11	SWITCH, TACTIL (X2)			
S026	1-572-596-11	SWITCH, KEY BOARD (PREVIEW)			
S027	1-572-596-11	SWITCH, KEY BOARD (1 EVENT PREVIEW)			
S028	1-572-596-11	SWITCH, KEY BOARD (GO TO)			
S029	1-572-596-11	SWITCH, KEY BOARD (EDIT START)			
S030	1-571-977-11	SWITCH, TACTIL (CANCEL)			

Ref. No.	Part No.	Description	Remark
S034	1-571-977-11	SWITCH, TACTIL (GPI)	
S035	1-571-977-11	SWITCH, TACTIL (EDIT I/F)	
S036	1-571-977-11	SWITCH, TACTIL (MARK IN)	
S037	1-571-977-11	SWITCH, TACTIL (MARK OUT)	
S038	1-571-977-11	SWITCH, TACTIL (←)	
S039	1-571-977-11	SWITCH, TACTIL (→)	
S040	1-571-977-11	SWITCH, TACTIL (↑)	
S041	1-571-977-11	SWITCH, TACTIL (↓)	
S042	1-571-977-11	SWITCH, TACTIL (MENU)	
S043	1-571-977-11	SWITCH, TACTIL (EDIT LIST)	
S044	1-571-977-11	SWITCH, TACTIL (EVENT DATA)	
S045	1-571-977-11	SWITCH, TACTIL (MOVE SEL)	
S046	1-571-977-11	SWITCH, TACTIL (MOVE END)	
S047	1-571-977-11	SWITCH, TACTIL (COPY)	
S048	1-571-977-11	SWITCH, TACTIL (YES)	
S049	1-571-977-11	SWITCH, TACTIL (NO)	
		< VIBRATOR >	
X001	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)	
X002	1-579-049-21	VIBRATOR, CRYSTAL (32.768MHz)	
**********			
*	A-7071-954-A	EI-2 BOARD, COMPLETE (US, Canadian)	
*	A-7072-020-A	EI-2P BOARD, COMPLETE (AEP, UK)	
		**********	
		(Ref. No 3,000 series)	
		< FERRITE BEAD >	
FB191	1-543-775-11	FILTER, EMI	
FB192	1-543-775-11	FILTER, EMI	
FB193	1-543-775-11	FILTER, EMI	
FB194	1-543-775-11	FILTER, EMI	
		< JACK >	
* J190	1-764-434-11	CONNECTOR (ROUND TYPE) 8P (EDIT I/F OUT)	
**********			

Ref. No.	Part No.	Description			Remark
*	A-7066-030-A	FD-51 BOARD, COMPLETE			
		**********			
		(Ref. No 4,000 series)			
	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S			
	7-682-547-09	SCREW +BVTT 3X6 (S)			
		< CAPACITOR >			
C701	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C702	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C703	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C704	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C705	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C706	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C707	1-163-222-11	CERAMIC CHIP	5PF	0.25PF	50V
C708	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C709	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C710	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C711	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C712	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< DIODE >			
D701	8-719-157-33	DIODE RD6.2M-B			
D702	8-719-157-33	DIODE RD6.2M-B			
		< IC >			
IC701	8-752-855-40	IC CXP80116-892Q (FD MICOM)			
IC702	8-759-143-35	IC uPD72067GC-3B6 (FDC)			
IC703	8-759-032-43	IC MC74HC157AF-T2 (SELECTOR)			
IC704	8-759-032-11	IC MC74HC04AF (INV)			
IC705	8-759-973-29	IC SN7438NS-T2 (NAND)			
IC706	8-759-929-86	IC SN74LS14NS (INV)			
IC707	8-759-987-84	IC SN7406NS (INV)			
		< COIL >			
L701	1-543-813-21	FILTER, EMI			
L702	1-543-813-21	FILTER, EMI			
		< RESISTOR >			
R701	1-216-073-00	METAL CHIP	10K	5%	1/10W
R702	1-216-073-00	METAL CHIP	10K	5%	1/10W
R703	1-216-073-00	METAL CHIP	10K	5%	1/10W
R704	1-216-073-00	METAL CHIP	10K	5%	1/10W
R705	1-216-073-00	METAL CHIP	10K	5%	1/10W
R706	1-216-073-00	METAL CHIP	10K	5%	1/10W
R707	1-216-073-00	METAL CHIP	10K	5%	1/10W
R708	1-216-073-00	METAL CHIP	10K	5%	1/10W
R709	1-216-073-00	METAL CHIP	10K	5%	1/10W
R710	1-216-073-00	METAL CHIP	10K	5%	1/10W
R711	1-216-073-00	METAL CHIP	10K	5%	1/10W
R712	1-216-073-00	METAL CHIP	10K	5%	1/10W
R713	1-216-073-00	METAL CHIP	10K	5%	1/10W
R714	1-216-073-00	METAL CHIP	10K	5%	1/10W
R715	1-216-049-00	METAL CHIP	1K	5%	1/10W
R716	1-216-049-00	METAL CHIP	1K	5%	1/10W
R717	1-216-049-00	METAL CHIP	1K	5%	1/10W
R718	1-216-049-00	METAL CHIP	1K	5%	1/10W
R719	1-216-049-00	METAL CHIP	1K	5%	1/10W
R720	1-216-049-00	METAL CHIP	1K	5%	1/10W
R721	1-216-097-00	METAL CHIP	100K	5%	1/10W
R722	1-216-097-00	METAL CHIP	100K	5%	1/10W
R723	1-216-073-00	METAL CHIP	10K	5%	1/10W
R724	1-216-073-00	METAL CHIP	10K	5%	1/10W
R725	1-216-073-00	METAL CHIP	10K	5%	1/10W
R726	1-216-097-00	METAL CHIP	100K	5%	1/10W
R727	1-216-097-00	METAL CHIP	100K	5%	1/10W
R728	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R729	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R730	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R731	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R732	1-216-049-00	METAL CHIP	1K	5%	1/10W
R733	1-216-049-00	METAL CHIP	1K	5%	1/10W
R734	1-216-049-00	METAL CHIP	1K	5%	1/10W
		< VIBRATOR >			
X701	1-567-927-11	VIBLATOR, CERAMIC (16MHz)			
X702	1-579-970-11	VIBRATOR, CERAMIC (32MHz)			
**********					
*	A-7072-022-A	FL-59P BOARD, COMPLETE (AEP, UK)			
*	A-7072-047-A	FL-59U BOARD, COMPLETE (US, Canadian)			
		**********			
		(Ref. No 3,000series)			
		< CAPACITOR >			
C301	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C351	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C352	1-163-239-11	CERAMIC CHIP	33PF	5%	50V
C353	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN401	1-691-199-21	CONNECTOR, FPC 26P			
CN402	1-506-491-11	PIN, CONNECTOR 12P			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D301	8-719-157-33	DIODE RD6.2M-B	
D302	8-719-106-43	DIODE RD9.1M-B1	
D303	8-719-106-43	DIODE RD9.1M-B1	
D304	8-719-106-43	DIODE RD9.1M-B1	
D305	8-719-106-43	DIODE RD9.1M-B1	
D306	8-719-106-43	DIODE RD9.1M-B1	
D307	8-719-106-43	DIODE RD9.1M-B1	
D308	8-719-106-43	DIODE RD9.1M-B1	
D309	8-719-157-33	DIODE RD6.2M-B	
D310	8-719-106-43	DIODE RD9.1M-B1	
D311	8-719-106-43	DIODE RD9.1M-B1	
D312	8-719-106-43	DIODE RD9.1M-B1	
D313	8-719-106-43	DIODE RD9.1M-B1	
D314	8-719-106-43	DIODE RD9.1M-B1	
D315	8-719-106-43	DIODE RD9.1M-B1	
D316	8-719-106-43	DIODE RD9.1M-B1	
D333	8-719-124-13	DIODE PH310	
D351	8-719-800-76	DIODE 1SS226	
		< FERRITE BEAD >	
FB301	1-543-775-11	FILTER, EMI	
FB302	1-543-775-11	FILTER, EMI	
FB303	1-543-775-11	FILTER, EMI	
FB304	1-543-775-11	FILTER, EMI	
FB305	1-543-775-11	FILTER, EMI	
FB306	1-543-775-11	FILTER, EMI	
FB308	1-543-775-11	FILTER, EMI	
FB309	1-543-775-11	FILTER, EMI	
FB310	1-543-775-11	FILTER, EMI	
FB311	1-543-775-11	FILTER, EMI	
		< JACK >	
J301	1-750-212-11	CONNECTOR (ROUND TYPE) 4P (PLAYER INPUT3, S VIDEO)	
J302	1-691-110-21	JACK, PIN 3P (PLAYER INPUT3, VIDEO/AUDIO)	
J303	1-566-822-21	JACK (MIC)	
J304	1-691-258-11	JACK (PLAYER INPUT3, LANC)	
J305	1-691-258-21	JACK (IR REPEATER)	
		< TRANSISTOR >	
Q301	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q302	8-729-140-75	TRANSISTOR 2SD999-CLCK	
Q351	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6	

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R301	1-216-001-00	METAL CHIP	10	5%	1/10W
R302	1-216-049-00	METAL CHIP	1K	5%	1/10W
R351	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R352	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R353	1-216-085-00	METAL CHIP	33K	5%	1/10W
R354	1-216-073-00	METAL CHIP	10K	5%	1/10W
R355	1-216-115-00	METAL CHIP	560K	5%	1/10W
R356	1-216-095-00	METAL CHIP	82K	5%	1/10W
R357	1-216-097-00	METAL CHIP	100K	5%	1/10W
R358	1-216-085-00	METAL CHIP	33K	5%	1/10W
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*	A-7071-957-A	FR-85 BOARD, COMPLETE (US, Canadian)			
*	A-7072-023-A	FR-85P BOARD, COMPLETE (AEP, UK)			
		**********			
		(Ref. No 3,000 series)			
		< CAPACITOR >			
C401	1-124-779-00	ELECT CHIP	10uF	20%	16V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-124-779-00	ELECT CHIP	10uF	20%	16V
C406	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C407	1-124-779-00	ELECT CHIP	10uF	20%	16V
C410	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
		< CONNECTOR >			
CN403	1-691-199-21	CONNECTOR, FPC 26P			
		< DIODE >			
D401	8-719-157-33	DIODE RD6.2M-B			
D402	8-719-157-33	DIODE RD6.2M-B			
D403	8-719-157-33	DIODE RD6.2M-B			
D404	8-719-157-33	DIODE RD6.2M-B			
		< FERRITE BEAD >			
FB401	1-543-775-11	FILTER, EMI			
FB402	1-543-775-11	FILTER, EMI			
FB552	1-543-775-11	FILTER, EMI			
FB553	1-543-775-11	FILTER, EMI			
FB554	1-543-775-11	FILTER, EMI			
FB555	1-543-775-11	FILTER, EMI			
FB556	1-543-775-11	FILTER, EMI			
		< IC >			
IC401	8-759-700-45	IC NJM4556M-A (HEADPHONE AMP)			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J401	1-566-822-31	JACK (HEADPHONES)			
J555	1-569-766-11	JACK (CONTROL UNIT)			
		< TRANSISTOR >			
Q401	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q402	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q403	8-729-107-46	TRANSISTOR 2SC3624A-L15			
Q404	8-729-107-46	TRANSISTOR 2SC3624A-L15			
		< RESISTOR >			
R401	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R402	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R405	1-216-009-00	METAL CHIP	22	5% 1/10W	
R406	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R407	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R408	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R409	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R412	1-216-009-00	METAL CHIP	22	5% 1/10W	
R413	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R414	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R415	1-216-009-00	METAL CHIP	22	5% 1/10W	
R416	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R417	1-216-009-00	METAL CHIP	22	5% 1/10W	
R418	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R419	1-216-045-00	METAL CHIP	680	5% 1/10W	
R420	1-216-045-00	METAL CHIP	680	5% 1/10W	
R421	1-216-045-00	METAL CHIP	680	5% 1/10W	
		< VARIABLE RESISTOR >			
RV401	1-241-506-11	RES, VAR, CARBON 1K/1K (HEADPHONES)			

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Ref. No.	Part No.	Description			Remark
*	A-7072-024-A	KM-13 BOARD, COMPLETE			
		**********			
		(Ref. No 4,000 series)			
		< CAPACITOR >			
C801	1-126-395-11	ELECT	22uF	20% 16V	
C802	1-126-395-11	ELECT	22uF	20% 16V	
C803	1-126-206-11	ELECT CHIP	100uF	20% 6.3V	
C804	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C805	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C806	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C807	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
CN801	1-506-487-11	PIN, CONNECTOR 8P			
CN802	1-569-936-11	SOCKET, CONNECTOR 20P			
		< DIODE >			
D801	8-719-106-43	DIODE RD9.1M-B1			
D802	8-719-157-33	DIODE RD6.2M-B			
D803	8-719-800-76	DIODE 1SS226			
D804	8-719-800-76	DIODE 1SS226			
D805	8-719-800-76	DIODE 1SS226			
D806	8-719-800-76	DIODE 1SS226			
D807	8-719-800-76	DIODE 1SS226			
D808	8-719-800-76	DIODE 1SS226			
D809	8-719-800-76	DIODE 1SS226			
D810	8-719-800-76	DIODE 1SS226			
D811	8-719-157-33	DIODE RD6.2M-B			
		< FERRITE BEAD >			
FB801	1-543-813-21	FILTER, EMI			
FB802	1-543-813-21	FILTER, EMI			
FB804	1-543-813-21	FILTER, EMI			
FB805	1-543-813-21	FILTER, EMI			
FB806	1-543-813-21	FILTER, EMI			
FB811	1-543-813-21	FILTER, EMI			
FB812	1-543-813-21	FILTER, EMI			
FB814	1-543-813-21	FILTER, EMI			
FB815	1-543-813-21	FILTER, EMI			
		< IC >			
IC801	8-759-157-17	IC PQ05SZ1U (REG)			
IC802	8-759-032-01	IC MC74HC00AF (NAND)			
IC803	8-759-032-01	IC MC74HC00AF (NAND)			
IC804	8-759-937-56	IC S-8054ALB-LM-S (RESET)			
IC805	8-759-253-14	IC MB89131-165 (KEYBOARD MICOM)			

Ref. No.	Part No.	Description			Remark
		< JACK >			
J888	1-569-766-11	JACK			
		< TRANSISTOR >			
Q801	8-729-140-47	TRANSISTOR	2SC3735-L-B35		
Q802	8-729-140-47	TRANSISTOR	2SC3735-L-B35		
Q803	8-729-140-47	TRANSISTOR	2SC3735-L-B35		
Q804	8-729-140-47	TRANSISTOR	2SC3735-L-B35		
Q805	8-729-923-80	TRANSISTOR	DTC143EK		
Q806	8-729-923-80	TRANSISTOR	DTC143EK		
Q807	8-729-923-80	TRANSISTOR	DTC143EK		
Q808	8-729-923-80	TRANSISTOR	DTC143EK		
Q809	8-729-923-80	TRANSISTOR	DTC143EK		
Q810	8-729-923-80	TRANSISTOR	DTC143EK		
		< RESISTOR >			
R801	1-216-025-00	METAL CHIP	100	5%	1/10W
R802	1-216-049-00	METAL CHIP	1K	5%	1/10W
R803	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R804	1-216-025-00	METAL CHIP	100	5%	1/10W
R805	1-216-049-00	METAL CHIP	1K	5%	1/10W
R806	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R807	1-216-025-00	METAL CHIP	100	5%	1/10W
R808	1-216-041-00	METAL CHIP	470	5%	1/10W
R809	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R810	1-216-073-00	METAL CHIP	10K	5%	1/10W
R811	1-216-025-00	METAL CHIP	100	5%	1/10W
R812	1-216-049-00	METAL CHIP	1K	5%	1/10W
R813	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R814	1-216-025-00	METAL CHIP	100	5%	1/10W
R815	1-216-041-00	METAL CHIP	470	5%	1/10W
R816	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R817	1-216-073-00	METAL CHIP	10K	5%	1/10W
R818	1-216-025-00	METAL CHIP	100	5%	1/10W
R819	1-216-041-00	METAL CHIP	470	5%	1/10W
R820	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R821	1-216-073-00	METAL CHIP	10K	5%	1/10W
R822	1-216-025-00	METAL CHIP	100	5%	1/10W
R823	1-216-049-00	METAL CHIP	1K	5%	1/10W
R824	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R825	1-216-025-00	METAL CHIP	100	5%	1/10W
R826	1-216-041-00	METAL CHIP	470	5%	1/10W
R827	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R828	1-216-073-00	METAL CHIP	10K	5%	1/10W
R829	1-216-073-00	METAL CHIP	10K	5%	1/10W
R830	1-216-073-00	METAL CHIP	10K	5%	1/10W
R831	1-216-073-00	METAL CHIP	10K	5%	1/10W
R832	1-216-073-00	METAL CHIP	10K	5%	1/10W
R833	1-216-073-00	METAL CHIP	10K	5%	1/10W
R834	1-216-073-00	METAL CHIP	10K	5%	1/10W
R835	1-216-073-00	METAL CHIP	10K	5%	1/10W
R836	1-216-073-00	METAL CHIP	10K	5%	1/10W
R837	1-216-073-00	METAL CHIP	10K	5%	1/10W
R838	1-216-073-00	METAL CHIP	10K	5%	1/10W
R839	1-216-073-00	METAL CHIP	10K	5%	1/10W
R840	1-216-073-00	METAL CHIP	10K	5%	1/10W
R841	1-216-073-00	METAL CHIP	10K	5%	1/10W
R842	1-216-073-00	METAL CHIP	10K	5%	1/10W
R843	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X801	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)			

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* A-7071-955-A PS-317 BOARD, COMPLETE (US, Canadian)
* A-7072-021-A PS-317P BOARD, COMPLETE (AEP, UK)

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(Ref. No 3,000series)

		< DIODE >			
D201	8-719-037-62	LED	CL-140D-CD-T (RECORDER)		
D202	8-719-985-27	LED	CL-140Y-CD (PLAYER 3)		
D203	8-719-985-27	LED	CL-140Y-CD (PLAYER 2)		
D204	8-719-985-27	LED	CL-140Y-CD (PLAYER 1)		
D205	8-719-984-31	LED	CL-140R-CD (STANDBY)		
D206	8-719-987-02	LED	CL-140PG-CD (POWER ON/OFF)		
		< RESISTOR >			
R201	1-216-029-00	METAL CHIP	150	5%	1/10W
R202	1-216-029-00	METAL CHIP	150	5%	1/10W
R203	1-216-029-00	METAL CHIP	150	5%	1/10W
R204	1-216-029-00	METAL CHIP	150	5%	1/10W
R205	1-216-041-00	METAL CHIP	470	5%	1/10W
R206	1-216-029-00	METAL CHIP	150	5%	1/10W
		< SWITCH >			
S201	1-692-446-11	SWITCH, TACTIL (LS20BB-2-T) (RECORDER)			
S202	1-692-446-11	SWITCH, TACTIL (LS20BB-2-T) (PLAYER 3)			
S203	1-692-446-11	SWITCH, TACTIL (LS20BB-2-T) (PLAYER 2)			
S204	1-692-446-11	SWITCH, TACTIL (LS20BB-2-T) (PLAYER1)			
S205	1-692-446-11	SWITCH, TACTIL (LS20BB-2-T) (POWER ON/STANDBY)			

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Ref. No.	Part No.	Description			Remark
⚠*	A-7066-029-A	PW-106P BOARD, COMPLETE (AEP, UK)			
⚠*	A-7066-130-A	PW-106U BOARD, COMPLETE (US, Canadian)			
		**********			
		(Ref. No 5, 000 series)			
⚠	1-532-740-11	FUSE, GLASS TUBE (US, Canadian)			
	1-533-189-11	HOLDER, FUSE			
⚠	1-576-225-21	FUSE (H. B. C.) (AEP, UK)			
		< CAPACITOR >			
⚠C001	1-104-706-11	FILM	0. 22uF	20%	250V
⚠C002	1-104-705-11	FILM	0. 1uF	20%	250V
⚠C003	1-107-397-11	ELECT (US, Canadian)	330uF	20%	200V
⚠C003	1-107-400-11	ELECT (AEP, UK)	150uF	20%	400V
⚠C008	1-161-740-00	CERAMIC (US, Canadian)	470PF	10%	400V
⚠C008	1-161-741-00	CERAMIC (AEP, UK)	0. 001uF	10%	400V
⚠C009	1-161-740-00	CERAMIC (US, Canadian)	470PF	10%	400V
⚠C009	1-161-741-00	CERAMIC (AEP, UK)	0. 001uF	10%	400V
⚠C010	1-161-741-00	CERAMIC (AEP, UK)	0. 001uF	10%	400V
⚠C011	1-161-741-00	CERAMIC (AEP, UK)	0. 001uF	10%	400V
⚠C012	1-161-742-00	CERAMIC (US, Canadian)	0. 0022uF	20%	400V
⚠C012	1-162-599-12	CERAMIC (AEP, UK)	0. 0047uF	20%	400V
⚠C013	1-162-599-12	CERAMIC (AEP, UK)	0. 0047uF	20%	400V
⚠C014	1-162-599-12	CERAMIC (AEP, UK)	0. 0047uF	20%	400V
C021	1-124-480-11	ELECT (US, Canadian)	470uF	20%	25V
C021	1-124-557-11	ELECT (AEP, UK)	1000uF	20%	25V
C022	1-124-360-00	ELECT	1000uF	20%	16V
		< CONNECTOR >			
CN001	1-564-321-00	PIN, CONNECTOR 2P			
* CN105	1-560-895-00	PIN, CONNECTOR 7P			
		< COMPOSITION CIRCUIT BLOCK >			
⚠CP101	1-413-895-11	POWER BLOCK (US, Canadian)			
⚠CP101	1-413-897-11	POWER BLOCK (AEP, UK)			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
⚠D001	8-719-510-06	DIODE S1WB60	
		< FUSE >	
⚠F301	1-532-779-11	FUSE, MICRO (SECONDARY) (US, Canadian)	
⚠F302	1-532-776-21	FUSE, MICRO (SECONDARY) (US, Canadian)	
		< COIL >	
L021	1-403-588-11	CIL, CHOKE 22uH	
L022	1-403-588-11	CIL, CHOKE 22uH	
		< LINE FILTER >	
⚠LF001	1-424-672-11	TRANSFORMER, LINE FILTER	
		< IC LINK >	
⚠PS201	1-532-984-11	LINK, IC 2. 0A (ICP-N50) (AEP, UK)	
⚠PS202	1-532-637-00	LINK, IC 1. 0A (ICP-N25) (AEP, UK)	
		< RESISTOR >	
⚠R001	1-214-947-00	METAL 2. 7M 1% 1/2W	
⚠R003	1-216-397-11	WIREWOUND 4. 7 10% 2W F	
		**********	
*	A-7071-953-A	RP-175 BOARD, COMPLETE (US, Canadian)	
*	A-7072-019-A	RP-175P BOARD, COMPLETE (AEP, UK)	
		**********	
		(Ref. No 2, 000 series)	
		< CONNECTOR >	
* CN101	1-562-717-11	CONNECTOR, 34P	
* CN201	1-562-717-11	CONNECTOR, 34P	
* CN301	1-562-717-11	CONNECTOR, 34P	
		< DIODE >	
D101	8-719-157-33	DIODE RD6. 2M-B	
D102	8-719-157-33	DIODE RD6. 2M-B	
D103	8-719-157-33	DIODE RD6. 2M-B	
D104	8-719-157-33	DIODE RD6. 2M-B	
D105	8-719-157-33	DIODE RD6. 2M-B	
D106	8-719-157-33	DIODE RD6. 2M-B	
D107	8-719-157-33	DIODE RD6. 2M-B	
D108	8-719-157-33	DIODE RD6. 2M-B	
D901	8-719-106-43	DIODE RD9. 1M-B1	
D902	8-719-106-43	DIODE RD9. 1M-B1	
D903	8-719-106-43	DIODE RD9. 1M-B1	
D904	8-719-106-43	DIODE RD9. 1M-B1	
D905	8-719-106-43	DIODE RD9. 1M-B1	
D906	8-719-106-43	DIODE RD9. 1M-B1	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
D907	8-719-106-43	DIODE RD9.1M-B1	
D908	8-719-106-43	DIODE RD9.1M-B1	
D909	8-719-106-43	DIODE RD9.1M-B1	
D910	8-719-106-43	DIODE RD9.1M-B1	
D911	8-719-157-33	DIODE RD6.2M-B	
D912	8-719-157-33	DIODE RD6.2M-B	
D913	8-719-106-43	DIODE RD9.1M-B1	
D914	8-719-106-43	DIODE RD9.1M-B1	
D915	8-719-106-43	DIODE RD9.1M-B1	
D916	8-719-106-43	DIODE RD9.1M-B1	
D917	8-719-106-43	DIODE RD9.1M-B1	
D918	8-719-106-43	DIODE RD9.1M-B1	
D919	8-719-106-43	DIODE RD9.1M-B1	
D920	8-719-106-43	DIODE RD9.1M-B1	
D921	8-719-106-43	DIODE RD9.1M-B1	
D922	8-719-106-43	DIODE RD9.1M-B1	
D923	8-719-106-43	DIODE RD9.1M-B1	
D924	8-719-106-43	DIODE RD9.1M-B1	
D925	8-719-106-43	DIODE RD9.1M-B1	
D926	8-719-106-43	DIODE RD9.1M-B1	
D927	8-719-106-43	DIODE RD9.1M-B1	
D928	8-719-106-43	DIODE RD9.1M-B1	
D929	8-719-106-43	DIODE RD9.1M-B1	
D930	8-719-106-43	DIODE RD9.1M-B1	
D931	8-719-106-43	DIODE RD9.1M-B1	
D932	8-719-106-43	DIODE RD9.1M-B1	
D933	8-719-106-43	DIODE RD9.1M-B1	
D934	8-719-106-43	DIODE RD9.1M-B1	
D935	8-719-106-43	DIODE RD9.1M-B1	
D936	8-719-106-43	DIODE RD9.1M-B1	
D937	8-719-106-43	DIODE RD9.1M-B1	
D938	8-719-106-43	DIODE RD9.1M-B1	
D939	8-719-106-43	DIODE RD9.1M-B1	
D940	8-719-106-43	DIODE RD9.1M-B1	
D941	8-719-106-43	DIODE RD9.1M-B1	
D942	8-719-106-43	DIODE RD9.1M-B1	
D943	8-719-106-43	DIODE RD9.1M-B1	
D944	8-719-106-43	DIODE RD9.1M-B1	
D945	8-719-106-43	DIODE RD9.1M-B1	
D946	8-719-106-43	DIODE RD9.1M-B1	
D947	8-719-106-43	DIODE RD9.1M-B1	
D948	8-719-106-43	DIODE RD9.1M-B1	
D949	8-719-106-43	DIODE RD9.1M-B1	
D950	8-719-106-43	DIODE RD9.1M-B1	

Ref. No.	Part No.	Description	Remark
		< FERRITE BEAD >	
FB101	1-543-775-11	FILTER, EMI	
FB102	1-543-775-11	FILTER, EMI	
FB103	1-543-775-11	FILTER, EMI	
FB104	1-543-775-11	FILTER, EMI	
FB105	1-543-775-11	FILTER, EMI	
FB106	1-543-775-11	FILTER, EMI	
FB107	1-543-775-11	FILTER, EMI	
FB108	1-543-775-11	FILTER, EMI	
FB109	1-543-775-11	FILTER, EMI	
FB110	1-543-775-11	FILTER, EMI	
FB111	1-543-775-11	FILTER, EMI	
FB112	1-543-775-11	FILTER, EMI	
FB113	1-543-775-11	FILTER, EMI	
FB114	1-543-775-11	FILTER, EMI	
FB115	1-543-775-11	FILTER, EMI	
FB116	1-543-775-11	FILTER, EMI	
FB131	1-543-775-11	FILTER, EMI	
FB132	1-543-775-11	FILTER, EMI	
FB133	1-543-775-11	FILTER, EMI	
FB134	1-543-775-11	FILTER, EMI	
FB135	1-543-775-11	FILTER, EMI	
FB136	1-543-775-11	FILTER, EMI	
FB137	1-543-775-11	FILTER, EMI	
FB138	1-543-775-11	FILTER, EMI	
FB139	1-543-775-11	FILTER, EMI	
FB140	1-543-775-11	FILTER, EMI	
FB141	1-543-775-11	FILTER, EMI	
FB142	1-543-775-11	FILTER, EMI	
FB143	1-543-775-11	FILTER, EMI	
FB144	1-543-775-11	FILTER, EMI	
FB145	1-543-775-11	FILTER, EMI	
FB146	1-543-775-11	FILTER, EMI	
FB147	1-543-775-11	FILTER, EMI	
FB148	1-543-775-11	FILTER, EMI	
FB149	1-543-775-11	FILTER, EMI	
FB150	1-543-775-11	FILTER, EMI	
FB151	1-543-775-11	FILTER, EMI	
FB152	1-543-775-11	FILTER, EMI	
FB153	1-543-775-11	FILTER, EMI	
FB154	1-543-775-11	FILTER, EMI	
FB155	1-543-775-11	FILTER, EMI	
FB156	1-543-775-11	FILTER, EMI	
FB157	1-543-775-11	FILTER, EMI	
FB158	1-543-775-11	FILTER, EMI	
FB159	1-543-775-11	FILTER, EMI	
FB160	1-543-775-11	FILTER, EMI	
FB161	1-543-775-11	FILTER, EMI	

Ref. No.	Part No.	Description	Remark
FB162	1-543-775-11	FILTER, EMI	
FB163	1-543-775-11	FILTER, EMI	
FB164	1-543-775-11	FILTER, EMI	
FB165	1-543-775-11	FILTER, EMI	
FB166	1-543-775-11	FILTER, EMI	
FB167	1-543-775-11	FILTER, EMI	
FB168	1-543-775-11	FILTER, EMI	
FB169	1-543-775-11	FILTER, EMI	
FB170	1-543-775-11	FILTER, EMI	
FB171	1-543-775-11	FILTER, EMI	
		< JACK >	
* J101	1-537-672-11	TERMINAL BOARD (PLAYER INPUT 1/2)	
J103	1-750-211-11	JACK BLOCK, PIN 2P (AUX AUDIO INPUT)	
* J104	1-537-672-11	TERMINAL BOARD (PROCESSOR IN/OUT 1)	
* J105	1-537-648-11	TERMINAL BLOCK, S (PROCESSOR OUT 2)	
* J106	1-537-672-11	TERMINAL BOARD (PROCESSOR IN/OUT)	
* J107	1-537-648-11	TERMINAL BLOCK, S (MONITOR OUT)	
J108	1-568-800-11	JACK, ULTRA SMALL (LANC)	
J109	1-568-800-11	JACK, ULTRA SMALL (LANC)	
J110	1-568-800-11	JACK, ULTRA SMALL (RECORDER)	
J111	1-563-935-31	JACK, STEREO HEADPHONE (GPI OUT)	
J112	1-563-935-31	JACK, STEREO HEADPHONE (CTRL S OUT)	
**********			
		MISCELLANEOUS	
		**********	
11	1-751-796-11	CORD, CONNECTION	
53	1-751-996-11	CABLE, 1.0MM PITCH FLAT (FAF-1)	
62	1-751-997-11	WIRE (FLAT) (FFC CONNECTOR)	
⚠75	1-251-134-11	INLET, AC (250V/2.5A) (AEP, UK)	
⚠75	1-251-135-11	INLET, AC (250V/1A) (US, Canadian)	
103	1-467-712-11	KEY BOARD UNIT	
109	1-751-796-11	CORD, CONNECTION	
⚠F001	1-532-740-11	FUSE GLASS TUBE (125V/1A) (US, Canadian)	
⚠F001	1-576-225-21	FUSE GLASS TUBE (250V/1A) (AEP, UK)	
**********			

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-645-79	SCREW +BVTP 3X6 TYPE2 N-S	
#2	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#3	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#5	7-682-547-09	SCREW +BVTT 3X6 (S)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-685-11	REPEATER, IR	
⚠	1-574-056-11	CORD, POWER (250V/2.5A) (AEP, UK)	
	1-574-316-11	CORD, CONNECTION (LANC CONTROL (L) CABLE)	
	1-574-496-11	CORD, CONNECTION (S/GPI CONTROL CABLE)	
	1-575-334-11	CORD, CONNECTION (AV CABLE)	
	1-575-335-21	CORD, CONNECTION (S VIDEO CABLE) (AEP, UK)	
	1-590-796-21	CORD, CONNECTION (CONTROL L CONVERT CABLE)	
	1-590-879-11	CORD, CONNECTION (VISCA CABLE) (AEP, UK)	
	1-751-498-21	CORD, CONNECTION (S VIDEO CABLE) (US, Canadian)	
⚠	1-751-676-11	CORD, POWER (125V/7A) (US, Canadian)	
	3-334-173-01	SHEET, PROTECTION	
	3-677-503-03	SHEET, PROTECTION	
	3-757-948-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-757-948-31	MANUAL, INSTRUCTION (FRENCH) (Canadian, AEP)	
	3-757-948-41	MANUAL, INSTRUCTION (GERMANY) (AEP)	
	3-757-948-51	MANUAL, INSTRUCTION (SPANISH) (AEP)	
	3-757-948-61	MANUAL, INSTRUCTION (NETHERLANDS) (AEP)	
	3-757-948-81	MANUAL, INSTRUCTION (ITALIAN) (AEP)	
*	3-795-581-21	SAFEGUARD (SONY), IMPORTANT (US)	
*	3-953-465-01	CUSHION, FRONT	
*	3-953-466-01	CUSHION, REAR	
*	3-953-703-01	CUSHION (R), PULPE	
*	3-953-704-01	CUSHION (L), PULPE	
*	3-959-494-01	INDIVIDUAL CARTON	
*	3-959-495-01	CUSHION (L), KEY BOARD	
*	3-959-496-01	CUSHION (R), KEY BOARD	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.